

	1	10	20	30	40	50	60	70	80																																																																							
NS D88 02 CS	A	A	A	A	A	G	C	A	T	G	G	A	A	A	K	A	A	T	G	A	T	T	A	A	T	T	G	A	A	T	T	A	A	T	A	G	C	G	T	G	G	T	T	T	C	C	G	R	T	T	C	C	G	A	T	A	C	C	C	A	W	G	T	G	A	A	G	G	G	C	C	T	T	C	C	C	A			
NS D88 03 CC	A	A	A	A	A	G	C	A	T	G	G	A	A	A	G	A	A	T	G	A	T	T	A	A	T	T	G	A	A	T	T	A	A	T	T	G	T	A	G	C	G	T	G	G	T	T	T	C	C	G	G	T	T	C	C	G	A	T	A	C	C	C	A	T	G	T	G	A	A	G	G	G	C	C	T	T	C	C	C	A
NS D88 04 CS	A	A	A	A	A	G	C	A	T	G	G	A	A	A	K	A	A	T	G	A	T	T	A	A	T	T	G	A	A	T	T	A	A	T	T	G	A	C	G	T	G	G	T	T	T	C	C	G	R	T	T	C	C	G	A	T	A	C	C	C	A	W	G	T	G	A	A	G	G	G	C	C	T	T	C	C	C	A		
NS D296 03 SS	A	A	A	A	A	G	C	A	T	G	G	A	A	A	T	A	A	T	G	A	T	T	A	A	T	T	G	A	A	T	T	A	T	T	T	T	A	G	C	G	T	G	G	T	T	T	C	C	G	A	T	T	C	C	G	A	T	A	C	C	C	A	A	G	T	G	A	A	G	G	G	C	C	T	T	C	C	C	A	
NS D296 07 CS	A	A	A	A	A	G	C	A	T	G	G	A	A	A	K	A	A	T	G	A	T	T	A	A	T	T	G	A	A	T	T	A	A	T	T	G	A	C	G	T	G	G	T	T	T	C	C	G	R	T	T	C	C	G	A	T	A	C	C	C	A	N	G	T	G	A	A	G	G	G	C	C	T	T	C	C	C	A		
NS D296 08 CS	A	A	A	A	A	G	C	A	T	G	G	A	A	A	K	A	A	T	G	A	T	T	A	A	T	T	G	A	A	T	T	A	A	T	T	G	A	C	G	T	G	G	T	T	T	C	C	G	R	T	T	C	C	G	A	T	A	C	C	C	A	W	G	T	G	A	A	G	G	G	C	C	T	T	C	C	C	A		
NS D296 09 CS	A	A	A	A	A	G	C	A	T	G	G	A	A	A	K	A	A	T	G	A	T	T	A	A	T	T	G	A	A	T	T	A	A	T	T	G	A	C	G	T	G	G	T	T	T	C	C	G	R	T	T	C	C	G	A	T	A	C	C	C	A	W	G	T	G	A	A	G	G	G	C	C	T	T	C	C	C	A		
NS D296 11 CS	A	A	A	A	A	G	C	A	T	G	G	A	A	A	K	A	A	T	G	A	T	T	A	A	T	T	G	A	A	T	T	A	A	T	T	G	A	C	G	T	G	G	T	T	T	C	C	G	R	T	T	C	C	G	A	T	A	C	C	C	A	W	G	T	G	A	A	G	G	G	C	C	T	T	C	C	C	A		
NS D296 12 CS	A	A	A	A	A	G	C	A	T	G	G	A	A	A	K	A	A	T	G	A	T	T	A	A	T	T	G	A	A	T	T	A	A	T	T	G	A	C	G	T	G	G	T	T	T	C	C	G	R	T	T	C	C	G	A	T	A	C	C	C	A	W	G	T	G	A	A	G	G	G	C	C	T	T	C	C	C	A		
Hal1 4 CS	A	A	A	A	A	G	C	A	T	G	G	A	A	A	K	A	A	T	G	A	T	T	A	A	T	T	G	A	A	T	T	A	A	T	T	G	A	C	G	T	G	G	T	T	T	C	C	G	R	T	T	C	C	G	A	T	A	C	C	C	A	W	G	T	G	A	A	G	G	G	C	C	T	T	C	C	C	A		
Hal1 5 CS	A	A	A	A	A	G	C	A	T	G	G	A	A	A	K	A	A	T	G	A	T	T	A	A	T	T	G	A	A	T	T	A	A	T	T	G	A	C	G	T	G	G	T	T	T	C	C	G	R	T	T	C	C	G	A	T	A	C	C	C	A	W	G	T	G	A	A	G	G	G	C	C	T	T	C	C	C	A		
Hal1 6 CS	A	A	A	A	A	G	C	A	T	G	G	A	A	A	K	A	A	T	G	A	T	T	A	A	T	T	G	A	A	T	T	A	A	T	T	G	A	C	G	T	G	G	T	T	T	C	C	G	R	T	T	C	C	G	A	T	A	C	C	C	A	W	G	T	G	A	A	G	G	G	C	C	T	T	C	C	C	A		
Hal1 7 CS	A	A	A	A	A	G	C	A	T	G	G	A	A	A	K	A	A	T	G	A	T	T	A	A	T	T	G	A	A	T	T	A	A	T	T	G	A	C	G	T	G	G	T	T	T	C	C	G	R	T	T	C	C	G	A	T	A	C	C	C	A	W	G	T	G	A	A	G	G	G	C	C	T	T	C	C	C	A		
Hal1 8 CS	A	A	A	A	A	G	C	A	T	G	G	A	A	A	K	A	A	T	G	A	T	T	A	A	T	T	G	A	A	T	T	A	A	T	T	G	A	C	G	T	G	G	T	T	T	C	C	G	R	T	T	C	C	G	A	T	A	C	C	C	A	W	G	T	G	A	A	G	G	G	C	C	T	T	C	C	C	A		
Hal1 9 SS	A	A	A	A	A	G	C	A	T	G	G	A	A	A	T	A	A	T	G	A	T	T	A	A	T	T	G	A	A	T	T	A	A	T	T	G	A	C	G	T	G	G	T	T	T	C	C	G	A	T	T	C	C	G	A	T	A	C	C	C	A	A	G	T	G	A	A	G	G	G	C	C	T	T	C	C	C	A		
Hal1 10 CS	A	A	A	A	A	G	C	A	T	G	G	A	A	A	K	A	A	T	G	A	T	T	A	A	T	T	G	A	A	T	T	A	A	T	T	G	A	C	G	T	G	G	T	T	T	C	C	G	R	T	T	C	C	G	A	T	A	C	C	C	A	W	G	T	G	A	A	G	G	G	C	C	T	T	C	C	C	A		
Hal1 11 CS	A	A	A	A	A	G	C	A	T	G	G	A	A	A	K	A	A	T	G	A	T	T	A	A	T	T	G	A	A	T	T	A	A	T	T	G	A	C	G	T	G	G	T	T	T	C	C	G	R	T	T	C	C	G	A	T	A	C	C	C	A	W	G	T	G	A	A	G	G	G	C	C	T	T	C	C	C	A		
Hal1 12 CS	A	A	A	A	A	G	C	A	T	G	G	A	A	A	K	A	A	T	G	A	T	T	A	A	T	T	G	A	A	T	T	A	A	T	T	G	A	C	G	T	G	G	T	T	T	C	C	G	R	T	T	C	C	G	A	T	A	C	C	C	A	W	G	T	G	A	A	G	G	G	C	C	T	T	C	C	C	A		
Hal1 14 CS	A	A	A	A	A	G	C	A	T	G	G	A	A	A	K	A	A	T	G	A	T	T	A	A	T	T	G	A	A	T	T	A	A	T	T	G	A	C	G	T	G	G	T	T	T	C	C	G	R	T	T	C	C	G	A	T	A	C	C	C	A	W	G	T	G	A	A	G	G	G	C	C	T	T	C	C	C	A		
Hal1 15 CS	A	A	A	A	A	G	C	A	T	G	G	A	A	A	K	A	A	T	G	A	T	T	A	A	T	T	G	A	A	T	T	A	A	T	T	G	A	C	G	T	G	G	T	T	T	C	C	G	R	T	T	C	C	G	A	T	A	C	C	C	A	W	G	T	G	A	A	G	G	G	C	C	T	T	C	C	C	A		
Hal1 16 CS	A	A	A	A	A	G	C	A	T	G	G	A	A	A	K	A	A	T	G	A	T	T	A	A	T	T	G	A	A	T	T	A	A	T	T	G	A	C	G	T	G	G	T	T	T	C	C	G	R	T	T	C	C	G	A	T	A	C	C	C	A	W	G	T	G	A	A	G	G	G	C	C	T	T	C	C	C	A		
Hal1 17 CS	A	A	A	A	A	G	C	A	T	G	G	A	A	A	K	A	A	T	G	A	T	T	A	A	T	T	G	A	A	T	T	A	A	T	T	G	A	C	G	T	G	G	T	T	T	C	C	G	R	T	T	C	C	G	A	T	A	C	C	C	A	W	G	T	G	A	A	G	G	G	C	C	T	T	C	C	C	A		
Hal1 19 CS	A	A	A	A	A	G	C	A	T	G	G	A	A	A	K	A	A	T	G	A	T	T	A	A	T	T	G	A	A	T	T	A	A	T	T	G	A	C	G	T	G	G	T	T	T	C	C	G	R	T	T	C	C	G	A	T	A	C	C	C	A	W	G	T	G	A	A	G	G	G	C	C	T	T	C	C	C	A		
Hal1 20 CS	A	A	A	A	A	G	C	A	T	G	G	A	A	A	K	A	A	T	G	A	T	T	A	A	T	T	G	A	A	T	T	A	A	T	T	G	A	C	G	T	G	G	T	T	T	C	C	G	R	T	T	C	C	G	A	T	A	C	C	C	A	W	G	T	G	A	A	G	G	G	C	C	T	T	C	C	C	A		
Hal1 21 SS	A	A	A	A	A	G	C	A	T	G	G	A	A	A	T	A	A	T	G	A	T	T	A	A	T	T	G	A	A	T	T	A	A	T	T	G	A	C	G	T	G	G	T	T	T	C	C	G	A	T	T	C	C	G	A	T	A	C	C	C	A	A	G	T	G	A	A	G	G	G	C	C	T	T	C	C	C	A		
Hal1 23 CS	A	A	A	A	A	G	C	A	T	G	G	A	A	A	K	A	A	T	G	A	T	T	A	A	T	T	G	A	A	T	T	A	A	T	T	G	A	C	G	T	G	G	T	T	T	C	C	G	R	T	T	C	C	G	A	T	A	C	C	C	A	W	G	T	G	A	A	G	G	G	C	C	T	T	C	C	C	A		
NS F299 1 SS	A	A	A	A	A	G	C	A	T	G	G	A	A	A	T	A	A	T	G	A	T	T	A	A	T	T	G	A	A	T	T	A	A	T	T	G	A	C	G	T	G	G	T	T	T	C	C	G	A	T	T	C	C	G	A	T	A	C	C	C	A	A	G	T	G	A	A	G	G	G	C	C	T	T	C	C	C	A		
NS F299 3 SS	A	A	A	A	A	G	C	A	T	G	G	A	A	A	T	A	A	T	G	A	T	T	A	A	T	T	G	A	A	T	T	A	A	T	T	G	A	C	G	T	G	G	T	T	T	C	C	G	A	T	T	C	C	G	A	T	A	C	C	C	A	A	G	T	G	A	A	G	G	G	C	C	T	T	C	C	C	A		
NS F299 4 CC	A	A	A	A	A	G	C	A	T	G	G	A	A	A	G	A	A	T	G	A	T	T	A	A	T	T	G	A	A	T	T	A	A	T	T	G	A	C	G	T	G	G	T	T	T	C	C	G	G	T	T	C	C	G	A	T	A	C	C	C	A	T	G	T	G	A	A	G	G	G	C	C	T	T	C	C	C	A		
NS F299 5 SS	A	A	A	A	A	G	C	A	T	G	G	A	A	A	T	A	A	T	G	A	T	T	A	A	T	T	G	A	A	T	T	A	A	T	T	G	A	C	G	T	G	G	T	T	T	C	C	G	A	T	T	C	C	G	A	T	A	C	C	C	A	A	G	T	G	A	A	G	G	G	C	C	T	T	C	C	C	A		
NS F299 6 SS	A	A	A	A	A	G	C	A	T	G	G	A	A	A	T	A	A	T																																																														

[illegible]

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80
KNG 3 5 CC	A	A	A	A	A	G	C	A	T	G	G	A	A	A	G	A	A	T	G	A	T	T	A	A	T	T	G	A	A	T	T	A	A	T	T	G	T	A	G	C	G	T	G	G	T	T	T	C	C	G	G	T	T	C	C	G	A	T	A	C	C	C	A	T	G	T	G	A	A	G	G	G	C	C	T	T	C	C	C	A
KNG 3 6 CC	A	A	A	A	A	G	C	A	T	G	G	A	A	A	G	A	A	T	G	A	T	T	A	A	T	T	G	A	A	T	T	A	A	T	T	G	T	A	G	C	G	T	G	G	T	T	T	C	C	G	G	T	T	C	C	G	A	T	A	C	C	C	A	T	G	T	G	A	A	G	G	G	C	C	T	T	C	C	C	A
KNG 3 7 CC	A	A	A	A	A	G	C	A	T	G	G	A	A	A	G	A	A	T	G	A	T	T	A	A	T	T	G	A	A	T	T	A	A	T	T	G	T	A	G	C	G	T	G	G	T	T	T	C	C	G	G	T	T	C	C	G	A	T	A	C	C	C	A	T	G	T	G	A	A	G	G	G	C	C	T	T	C	C	C	A
KNG 3 8 CC	A	A	A	A	A	G	C	A	T	G	G	A	A	A	G	A	A	T	G	A	T	T	A	A	T	T	G	A	A	T	T	A	A	T	T	G	T	A	G	C	G	T	G	G	T	T	T	C	C	G	G	T	T	C	C	G	A	T	A	C	C	C	A	T	G	T	G	A	A	G	G	G	C	C	T	T	C	C	C	A
KNG 3 9 CC	A	A	A	A	A	G	C	A	T	G	G	A	A	A	G	A	A	T	G	A	T	T	A	A	T	T	G	A	A	T	T	A	A	T	T	G	T	A	G	C	G	T	G	G	T	T	T	C	C	G	G	T	T	C	C	G	A	T	A	C	C	C	A	T	G	T	G	A	A	G	G	G	C	C	T	T	C	C	C	A
KNG 3 10 CC	A	A	A	A	A	G	C	A	T	G	G	A	A	A	G	A	A	T	G	A	T	T	A	A	T	T	G	A	A	T	T	A	A	T	T	G	T	A	G	C	G	T	G	G	T	T	T	C	C	G	G	T	T	C	C	G	A	T	A	C	C	C	A	T	G	T	G	A	A	G	G	G	C	C	T	T	C	C	C	A
KNG 3 14--CC	A	A	A	A	A	G	C	A	T	G	G	A	A	A	G	A	A	T	G	A	T	T	A	A	T	T	G	A	A	T	T	A	A	T	T	G	T	A	G	C	G	T	G	G	T	T	T	C	C	G	G	T	T	C	C	G	A	T	A	C	C	C	A	T	G	T	G	A	A	G	G	G	C	C	T	T	C	C	C	A
NS C1 CC	A	A	A	A	A	G	C	A	T	G	G	A	A	A	G	A	A	T	G	A	T	T	A	A	T	T	G	A	A	T	T	A	A	T	T	G	T	A	G	C	G	T	G	G	T	T	T	C	C	G	G	T	T	C	C	G	A	T	A	C	C	C	A	T	G	T	G	A	A	G	G	G	C	C	T	T	C	C	C	A
NS C2 CC	A	A	A	A	A	G	C	A	T	G	G	A	A	A	G	A	A	T	G	A	T	T	A	A	T	T	G	A	A	T	T	A	A	T	T	G	T	A	G	C	G	T	G	G	T	T	T	C	C	G	G	T	T	C	C	G	A	T	A	C	C	C	A	T	G	T	G	A	A	G	G	G	C	C	T	T	C	C	C	A
NS C3 CC	A	A	A	A	A	G	C	A	T	G	G	A	A	A	G	A	A	T	G	A	T	T	A	A	T	T	G	A	A	T	T	A	A	T	T	G	T	A	G	C	G	T	G	G	T	T	T	C	C	G	G	T	T	C	C	G	A	T	A	C	C	C	A	T	G	T	G	A	A	G	G	G	C	C	T	T	C	C	C	A
NS C4 CC	A	A	A	A	A	G	C	A	T	G	G	A	A	A	G	A	A	T	G	A	T	T	A	A	T	T	G	A	A	T	T	A	A	T	T	G	T	A	G	C	G	T	G	G	T	T	T	C	C	G	G	T	T	C	C	G	A	T	A	C	C	C	A	T	G	T	G	A	A	G	G	G	C	C	T	T	C	C	C	A
NS C6 CC	A	A	A	A	A	G	C	A	T	G	G	A	A	A	G	A	A	T	G	A	T	T	A	A	T	T	G	A	A	T	T	A	A	T	T	G	T	A	G	C	G	T	G	G	T	T	T	C	C	G	G	T	T	C	C	G	A	T	A	C	C	C	A	T	G	T	G	A	A	G	G	G	C	C	T	T	C	C	C	A
NS C9 CC	A	A	A	A	A	G	C	A	T	G	G	A	A	A	G	A	A	T	G	A	T	T	A	A	T	T	G	A	A	T	T	A	A	T	T	G	T	A	G	C	G	T	G	G	T	T	T	C	C	G	G	T	T	C	C	G	A	T	A	C	C	C	A	T	G	T	G	A	A	G	G	G	C	C	T	T	C	C	C	A
OD 1 CC	A	A	A	A	A	G	C	A	T	G	G	A	A	A	G	A	A	T	G	A	T	T	A	A	T	T	G	A	A	T	T	A	A	T	T	G	T	A	G	C	G	T	G	G	T	T	T	C	C	G	G	T	T	C	C	G	A	T	A	C	C	C	A	T	G	T	G	A	A	G	G	G	C	C	T	T	C	C	C	A
OD 2 CC	A	A	A	A	A	G	C	A	T	G	G	A	A	A	G	A	A	T	G	A	T	T	A	A	T	T	G	A	A	T	T	A	A	T	T	G	T	A	G	C	G	T	G	G	T	T	T	C	C	G	G	T	T	C	C	G	A	T	A	C	C	C	A	T	G	T	G	A	A	G	G	G	C	C	T	T	C	C	C	A
OD 3 CC	A	A	A	A	A	G	C	A	T	G	G	A	A	A	G	A	A	T	G	A	T	T	A	A	T	T	G	A	A	T	T	A	A	T	T	G	T	A	G	C	G	T	G	G	T	T	T	C	C	G	G	T	T	C	C	G	A	T	A	C	C	C	A	T	G	T	G	A	A	G	G	G	C	C	T	T	C	C	C	A
OD 4 CC	A	A	A	A	A	G	C	A	T	G	G	A	A	A	G	A	A	T	G	A	T	T	A	A	T	T	G	A	A	T	T	A	A	T	T	G	T	A	G	C	G	T	G	G	T	T	T	C	C	G	G	T	T	C	C	G	A	T	A	C	C	C	A	T	G	T	G	A	A	G	G	G	C	C	T	T	C	C	C	A
OD 5 CC	A	A	A	A	A	G	C	A	T	G	G	A	A	A	G	A	A	T	G	A	T	T	A	A	T	T	G	A	A	T	T	A	A	T	T	G	T	A	G	C	G	T	G	G	T	T	T	C	C	G	G	T	T	C	C	G	A	T	A	C	C	C	A	T	G	T	G	A	A	G	G	G	C	C	T	T	C	C	C	A
OD 9 CC	A	A	A	A	A	G	C	A	T	G	G	A	A	A	G	A	A	T	G	A	T	T	A	A	T	T	G	A	A	T	T	A	A	T	T	G	T	A	G	C	G	T	G	G	T	T	T	C	C	G	G	T	T	C	C	G	A	T	A	C	C	C	A	T	G	T	G	A	A	G	G	G	C	C	T	T	C	C	C	A
OD2004 3 CC	A	A	A	A	A	G	C	A	T	G	G	A	A	A	G	A	A	T	G	A	T	T	A	A	T	T	G	A	A	T	T	A	A	T	T	G	T	A	G	C	G	T	G	G	T	T	T	C	C	G	G	T	T	C	C	G	A	T	A	C	C	C	A	T	G	T	G	A	A	G	G	G	C	C	T	T	C	C	C	A
OD2004 4 CC	A	A	A	A	A	G	C	A	T	G	G	A	A	A	G	A	A	T	G	A	T	T	A	A	T	T	G	A	A	T	T	A	A	T	T	G	T	A	G	C	G	T	G	G	T	T	T	C	C	G	G	T	T	C	C	G	A	T	A	C	C	C	A	T	G	T	G	A	A	G	G	G	C	C	T	T	C	C	C	A
OD2004 6 CC	A	A	A	A	A	G	C	A	T	G	G	A	A	A	G	A	A	T	G	A	T	T	A	A	T	T	G	A	A	T	T	A	A	T	T	G	T	A	G	C	G	T	G	G	T	T	T	C	C	G	G	T	T	C	C	G	A	T	A	C	C	C	A	T	G	T	G	A	A	G	G	G	C	C	T	T	C	C	C	A
OD2004 7 CC	A	A	A	A	A	G	C	A	T	G	G	A	A	A	G	A	A	T	G	A	T	T	A	A	T	T	G	A	A	T	T	A	A	T	T	G	T	A	G	C	G	T	G	G	T	T	T	C	C	G	G	T	T	C	C	G	A	T	A	C	C	C	A	T	G	T	G	A	A	G	G	G	C	C	T	T	C	C	C	A
OD2004 10 CC	A	A	A	A	A	G	C	A	T	G	G	A	A	A	G	A	A	T	G	A	T	T	A	A	T	T	G	A	A	T	T	A	A	T	T	G	T	A	G	C	G	T	G	G	T	T	T	C	C	G	G	T	T	C	C	G	A	T	A	C	C	C	A	T	G	T	G	A	A	G	G	G	C	C	T	T	C	C	C	A
OD2004 14 CC	A	A	A	A	A	G	C	A	T	G	G	A	A	A	G	A	A	T	G	A	T	T	A	A	T	T	G	A	A	T	T	A	A	T	T	G	T	A	G	C	G	T	G	G	T	T	T	C	C	G	G	T	T	C	C	G	A	T	A	C	C	C	A	T	G	T	G	A	A	G	G	G	C	C	T	T	C	C	C	A
RH 4 CC	A	A	A	A	A	G	C	A	T	G	G	A	A	A	G	A	A	T	G	A	T	T	A	A	T	T	G	A	A	T	T	A	A	T	T	G	T	A	G	C	G	T	G	G	T	T	T	C	C	G	G	T	T	C	C	G	A	T	A	C	C	C	A	T	G	T	G	A	A	G	G	G	C	C	T	T	C	C	C	A
RH 5 CC	A	A	A	A	A	G	C	A	T	G	G	A	A	A	G	A	A	T	G	A	T	T	A	A	T	T	G	A	A	T	T	A	A	T	T	G	T	A	G	C	G	T	G	G	T	T	T	C	C	G	G	T	T	C	C	G	A	T	A	C	C	C	A	T	G	T	G	A	A	G	G	G	C	C	T	T	C	C	C	A
RH 6 CC	A	A	A	A	A	G	C	A	T	G	G	A	A	A	G	A	A	T	G	A	T	T	A	A	T	T	G	A	A	T	T	A	A	T	T	G	T	A	G	C	G	T	G	G	T	T	T	C	C	G	G	T	T	C	C	G	A	T	A	C	C	C	A	T	G	T	G	A	A	G	G	G	C	C	T	T	C	C	C	A
RH 7 CC	A	A	A	A	A	G	C	A	T	G	G	A	A	A	G	A	A	T	G	A	T	T	A	A	T	T	G	A	A	T	T	A	A	T	T	G	T	A	G	C	G																																							

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NJM 1 4 CC	A	A	A	A	A	G	C	A	T	G	G	A	A	A	G	A	A	T	G	A	T	T	A	A	T	T	G	A	A	T	T	A	A	T	T	G	T	A	G	C	G	T	G	G	T	T	T	C	C	G	G	T	T	C	C	G	A	T	A	C	C	C	A	T	G	T	G	A	A	G	G	G	C	C	T	T	C	C	C	A
NJM 1 5 CC	A	A	A	A	A	G	C	A	T	G	G	A	A	A	G	A	A	T	G	A	T	T	A	A	T	T	G	A	A	T	T	A	A	T	T	G	T	A	G	C	G	T	G	G	T	T	T	C	C	G	G	T	T	C	C	G	A	T	A	C	C	C	A	T	G	T	G	A	A	G	G	G	C	C	T	T	C	C	C	A
NJM 1 8 CC	A	A	A	A	A	G	C	A	T	G	G	A	A	A	G	A	A	T	G	A	T	T	A	A	T	T	G	A	A	T	T	A	A	T	T	G	T	A	G	C	G	T	G	G	T	T	T	C	C	G	G	T	T	C	C	G	A	T	A	C	C	C	A	T	G	T	G	A	A	G	G	G	C	C	T	T	C	C	C	A
NJM 1 9 CC	A	A	A	A	A	G	C	A	T	G	G	A	A	A	G	A	A	T	G	A	T	T	A	A	T	T	G	A	A	T	T	A	A	T	T	G	T	A	G	C	G	T	G	G	T	T	T	C	C	G	G	T	T	C	C	G	A	T	A	C	C	C	A	T	G	T	G	A	A	G	G	G	C	C	T	T	C	C	C	A
NJM 1 10 CC	A	A	A	A	A	G	C	A	T	G	G	A	A	A	G	A	A	T	G	A	T	T	A	A	T	T	G	A	A	T	T	A	A	T	T	G	T	A	G	C	G	T	G	G	T	T	T	C	C	G	G	T	T	C	C	G	A	T	A	C	C	C	A	T	G	T	G	A	A	G	G	G	C	C	T	T	C	C	C	A
NJM 1 11 CC	A	A	A	A	A	G	C	A	T	G	G	A	A	A	G	A	A	T	G	A	T	T	A	A	T	T	G	A	A	T	T	A	A	T	T	G	T	A	G	C	G	T	G	G	T	T	T	C	C	G	G	T	T	C	C	G	A	T	A	C	C	C	A	T	G	T	G	A	A	G	G	G	C	C	T	T	C	C	C	A
Rh1 CS	A	A	A	A	A	G	C	A	T	G	G	A	A	A	K	A	A	T	G	A	T	T	A	A	T	T	G	A	A	T	T	A	W	T	T	K	T	A	G	C	G	T	G	G	T	T	T	C	C	G	R	T	T	C	C	G	A	T	A	C	C	C	A	W	G	T	G	A	A	G	G	G	C	C	T	T	C	C	C	A
Rh3 SS	A	A	A	A	A	G	C	A	T	G	G	A	A	A	T	A	A	T	G	A	T	T	A	A	T	T	G	A	A	T	T	A	T	T	T	T	A	G	C	G	T	G	G	T	T	T	C	C	G	A	T	T	C	C	G	A	T	A	C	C	C	A	A	G	T	G	A	A	G	G	G	C	C	T	T	C	C	C	A	
Rh5 SS	A	A	A	A	A	G	C	A	T	G	G	A	A	A	T	A	A	T	G	A	T	T	A	A	T	T	G	A	A	T	T	A	T	T	T	T	A	G	C	G	T	G	G	T	T	T	C	C	G	A	T	T	C	C	G	A	T	A	C	C	C	A	A	G	T	G	A	A	G	G	G	C	C	T	T	C	C	C	A	
Rh6 CS	A	A	A	A	A	G	C	A	T	G	G	A	A	A	K	A	A	T	G	A	T	T	A	A	T	T	G	A	A	T	T	A	W	T	T	K	T	A	G	C	G	T	G	G	T	T	T	C	C	G	R	T	T	C	C	G	A	T	A	C	C	C	A	W	G	T	G	A	A	G	G	G	C	C	T	T	C	C	C	A
Rh8 CS	A	A	A	A	A	G	C	A	T	G	G	A	A	A	K	A	A	T	G	A	T	T	A	A	T	T	G	A	A	T	T	A	W	T	T	K	T	A	G	C	G	T	G	G	T	T	T	C	C	G	R	T	T	C	C	G	A	T	A	C	C	C	A	W	G	T	G	A	A	G	G	G	C	C	T	T	C	C	C	A
Rh9 CC	A	A	A	A	A	G	C	A	T	G	G	A	A	A	G	A	A	T	G	A	T	T	A	A	T	T	G	A	A	T	T	A	A	T	T	G	T	A	G	C	G	T	G	G	T	T	T	C	C	G	G	T	T	C	C	G	A	T	A	C	C	C	A	T	G	T	G	A	A	G	G	G	C	C	T	T	C	C	C	A
Rh10 CC	A	A	A	A	A	G	C	A	T	G	G	A	A	A	G	A	A	T	G	A	T	T	A	A	T	T	G	A	A	T	T	A	A	T	T	G	T	A	G	C	G	T	G	G	T	T	T	C	C	G	G	T	T	C	C	G	A	T	A	C	C	C	A	T	G	T	G	A	A	G	G	G	C	C	T	T	C	C	C	A
Rh11 CS	A	A	A	A	A	G	C	A	T	G	G	A	A	A	K	A	A	T	G	A	T	T	A	A	T	T	G	A	A	T	T	A	W	T	T	K	T	A	G	C	G	T	G	G	T	T	T	C	C	G	R	T	T	C	C	G	A	T	A	C	C	C	A	W	G	T	G	A	A	G	G	G	C	C	T	T	C	C	C	A
Rh12 CS	A	A	A	A	A	G	C	A	T	G	G	A	A	A	K	A	A	T	G	A	T	T	A	A	T	T	G	A	A	T	T	A	W	T	T	K	T	A	G	C	G	T	G	G	T	T	T	C	C	G	R	T	T	C	C	G	A	T	A	C	C	C	A	W	G	T	G	A	A	G	G	G	C	C	T	T	C	C	C	A
Rh13 CC	A	A	A	A	A	G	C	A	T	G	G	A	A	A	G	A	A	T	G	A	T	T	A	A	T	T	G	A	A	T	T	A	A	T	T	G	T	A	G	C	G	T	G	G	T	T	T	C	C	G	G	T	T	C	C	G	A	T	A	C	C	C	A	T	G	T	G	A	A	G	G	G	C	C	T	T	C	C	C	A
Rh14 SS	A	A	A	A	A	G	C	A	T	G	G	A	A	A	T	A	A	T	G	A	T	T	A	A	T	T	G	A	A	T	T	A	T	T	T	T	A	G	C	G	T	G	G	T	T	T	C	C	G	A	T	T	C	C	G	A	T	A	C	C	C	A	A	G	T	G	A	A	G	G	G	C	C	T	T	C	C	C	A	
Rh15 SS	A	A	A	A	A	G	C	A	T	G	G	A	A	A	T	A	A	T	G	A	T	T	A	A	T	T	G	A	A	T	T	A	T	T	T	T	A	G	C	G	T	G	G	T	T	T	C	C	G	A	T	T	C	C	G	A	T	A	C	C	C	A	A	G	T	G	A	A	G	G	G	C	C	T	T	C	C	C	A	
Rh16 CC	A	A	A	A	A	G	C	A	T	G	G	A	A	A	G	A	A	T	G	A	T	T	A	A	T	T	G	A	A	T	T	A	A	T	T	G	T	A	G	C	G	T	G	G	T	T	T	C	C	G	G	T	T	C	C	G	A	T	A	C	C	C	A	T	G	T	G	A	A	G	G	G	C	C	T	T	C	C	C	A
Rh17 CS	A	A	A	A	A	G	C	A	T	G	G	A	A	A	K	A	A	T	G	A	T	T	A	A	T	T	G	A	A	T	T	A	W	T	T	K	T	A	G	C	G	T	G	G	T	T	T	C	C	G	R	T	T	C	C	G	A	T	A	C	C	C	A	W	G	T	G	A	A	G	G	G	C	C	T	T	C	C	C	A
Rh18 CS	A	A	A	A	A	G	C	A	T	G	G	A	A	A	K	A	A	T	G	A	T	T	A	A	T	T	G	A	A	T	T	A	W	T	T	K	T	A	G	C	G	T	G	G	T	T	T	C	C	G	R	T	T	C	C	G	A	T	A	C	C	C	A	W	G	T	G	A	A	G	G	G	C	C	T	T	C	C	C	A
Rh19 CC	A	A	A	A	A	G	C	A	T	G	G	A	A	A	G	A	A	T	G	A	T	T	A	A	T	T	G	A	A	T	T	A	A	T	T	G	T	A	G	C	G	T	G	G	T	T	T	C	C	G	G	T	T	C	C	G	A	T	A	C	C	C	A	T	G	T	G	A	A	G	G	G	C	C	T	T	C	C	C	A
Rh21 CC	A	A	A	A	A	G	C	A	T	G	G	A	A	A	G	A	A	T	G	A	T	T	A	A	T	T	G	A	A	T	T	A	A	T	T	G	T	A	G	C	G	T	G	G	T	T	T	C	C	G	G	T	T	C	C	G	A	T	A	C	C	C	A	T	G	T	G	A	A	G	G	G	C	C	T	T	C	C	C	A
Rh23 CS	A	A	A	A	A	G	C	A	T	G	G	A	A	A	K	A	A	T	G	A	T	T	A	A	T	T	G	A	A	T	T	A	W	T	T	K	T	A	G	C	G	T	G	G	T	T	T	C	C	G	R	T	T	C	C	G	A	T	A	C	C	C	A	W	G	T	G	A	A	G	G	G	C	C	T	T	C	C	C	A
Rh24 CS	A	A	A	A	A	G	C	A	T	G	G	A	A	A	K	A	A	T	G	A	T	T	A	A	T	T	G	A	A	T	T	A	W	T	T	K	T	A	G	C	G	T	G	G	T	T	T	C	C	G	R	T	T	C	C	G	A	T	A	C	C	C	A	W	G	T	G	A	A	G	G	G	C	C	T	T	C	C	C	A
Rh1-1 SS	A	A	A	A	A	G	C	A	T	G	G	A	A	A	T	A	A	T	G	A	T	T	A	A	T	T	G	A	A	T	T	A	T	T	T	T	A	G	C	G	T	G	G	T	T	T	C	C	G	A	T	T	C	C	G	A	T	A	C	C	C	A	A	G	T	G	A	A	G	G	G	C	C	T	T	C	C	C	A	
Rh1-2 CS	A	A	A	A	A	G	C	A	T	G	G	A	A	A	K	A	A	T	G	A	T	T	A	A	T	T	G	A	A	T	T	A	W	T	T	K	T	A	G	C	G	T	G	G	T	T	T	C	C	G	R	T	T	C	C	G	A	T	A	C	C	C	A	W	G	T	G	A	A	G	G	G	C	C	T	T	C	C	C	A
Rh1-3 CC	A	A	A	A	A	G	C	A	T	G	G	A	A	A	G	A	A	T	G	A	T	T	A	A	T	T	G	A	A	T	T	A	A	T	T	G	T	A	G	C	G	T	G	G	T	T	T	C	C	G	G	T	T	C	C	G	A	T	A	C	C	C	A	T	G	T	G	A	A	G	G	G	C	C	T	T	C	C	C	A
Rh1-6 CC	A	A	A	A	A	G	C	A	T	G	G	A	A	A	G	A	A	T	G	A	T	T	A	A	T	T	G	A	A	T	T	A	A	T	T	G	T	A	G	C	G	T	G	G	T	T	T	C																																

	1	10	20	30	40	50	60	70	80																																																																							
Rh1-35 CS	A	A	A	A	A	G	C	A	T	G	G	A	A	A	K	A	A	T	G	A	T	T	A	A	T	T	G	A	A	T	T	A	W	T	T	K	T	A	G	C	G	T	G	G	T	T	T	C	C	G	R	T	T	C	C	G	A	T	A	C	C	C	A	W	G	T	G	A	A	G	G	G	C	C	T	T	C	C	C	A
Rh1-36 CS	A	A	A	A	A	G	C	A	T	G	G	A	A	A	K	A	A	T	G	A	T	T	A	A	T	T	G	A	A	T	T	A	W	T	T	K	T	A	G	C	G	T	G	G	T	T	T	C	C	G	R	T	T	C	C	G	A	T	A	C	C	C	A	W	G	T	G	A	A	G	G	G	C	C	T	T	C	C	C	A
Rh1-37 CS	A	A	A	A	A	G	C	A	T	G	G	A	A	A	K	A	A	T	G	A	T	T	A	A	T	T	G	A	A	T	T	A	W	T	T	K	T	A	G	C	G	T	G	G	T	T	T	C	C	G	R	T	T	C	C	G	A	T	A	C	C	C	A	W	G	T	G	A	A	G	G	G	C	C	T	T	C	C	C	A
Rh1-38 CS	A	A	A	A	A	G	C	A	T	G	G	A	A	A	K	A	A	T	G	A	T	T	A	A	T	T	G	A	A	T	T	A	W	T	T	K	T	A	G	C	G	T	G	G	T	T	T	C	C	G	R	T	T	C	C	G	A	T	A	C	C	C	A	W	G	T	G	A	A	G	G	G	C	C	T	T	C	C	C	A
Rh1-39 SS	A	A	A	A	A	G	C	A	T	G	G	A	A	A	T	A	T	G	A	T	T	A	A	T	T	G	A	A	T	T	A	A	T	T	T	T	A	G	C	G	T	G	G	T	T	T	C	C	G	A	T	T	C	C	G	A	T	A	C	C	C	A	A	G	T	G	A	A	G	G	G	C	C	T	T	C	C	C	A	
Rh1-40 CC	A	A	A	A	A	G	C	A	T	G	G	A	A	A	G	A	A	T	G	A	T	T	A	A	T	T	G	A	A	T	T	A	A	T	T	G	T	A	G	C	G	T	G	G	T	T	T	C	C	G	A	T	T	C	C	G	A	T	A	C	C	C	A	T	G	T	G	A	A	G	G	G	C	C	T	T	C	C	C	A
Rh1-41 CC	A	A	A	A	A	G	C	A	T	G	G	A	A	A	G	A	A	T	G	A	T	T	A	A	T	T	G	A	A	T	T	A	A	T	T	G	T	A	G	C	G	T	G	G	T	T	T	C	C	G	G	T	T	C	C	G	A	T	A	C	C	C	A	T	G	T	G	A	A	G	G	G	C	C	T	T	C	C	C	A
Rh1-43 SS	A	A	A	A	A	G	C	A	T	G	G	A	A	A	T	A	A	T	G	A	T	T	A	A	T	T	G	A	A	T	T	A	T	T	T	T	A	G	C	G	T	G	G	T	T	T	C	C	G	A	T	T	C	C	G	A	T	A	C	C	C	A	A	G	T	G	A	A	G	G	G	C	C	T	T	C	C	C	A	
Rh1-44 CC	A	A	A	A	A	G	C	A	T	G	G	A	A	A	G	A	A	T	G	A	T	T	A	A	T	T	G	A	A	T	T	A	A	T	T	G	T	A	G	C	G	T	G	G	T	T	T	C	C	G	G	T	T	C	C	G	A	T	A	C	C	C	A	T	G	T	G	A	A	G	G	G	C	C	T	T	C	C	C	A
Rh1-47 CS	A	A	A	A	A	G	C	A	T	G	G	A	A	A	K	A	A	T	G	A	T	T	A	A	T	T	G	A	A	T	T	A	W	T	T	K	T	A	G	C	G	T	G	G	T	T	T	C	C	G	R	T	T	C	C	G	A	T	A	C	C	C	A	W	G	T	G	A	A	G	G	G	C	C	T	T	C	C	C	A
Rh1-49 CS	A	A	A	A	A	G	C	A	T	G	G	A	A	A	K	A	A	T	G	A	T	T	A	A	T	T	G	A	A	T	T	A	W	T	T	K	T	A	G	C	G	T	G	G	T	T	T	C	C	G	R	T	T	C	C	G	A	T	A	C	C	C	A	W	G	T	G	A	A	G	G	G	C	C	T	T	C	C	C	A
Rh1-52 CS	A	A	A	A	A	G	C	A	T	G	G	A	A	A	K	A	A	T	G	A	T	T	A	A	T	T	G	A	A	T	T	A	W	T	T	K	T	A	G	C	G	T	G	G	T	T	T	C	C	G	R	T	T	C	C	G	A	T	A	C	C	C	A	W	G	T	G	A	A	G	G	G	C	C	T	T	C	C	C	A
Rh1-53 CS	A	A	A	A	A	G	C	A	T	G	G	A	A	A	K	A	A	T	G	A	T	T	A	A	T	T	G	A	A	T	T	A	W	T	T	K	T	A	G	C	G	T	G	G	T	T	T	C	C	G	R	T	T	C	C	G	A	T	A	C	C	C	A	W	G	T	G	A	A	G	G	G	C	C	T	T	C	C	C	A
Rh1-54 CC	A	A	A	A	A	G	C	A	T	G	G	A	A	A	G	A	A	T	G	A	T	T	A	A	T	T	G	A	A	T	T	A	A	T	T	G	T	A	G	C	G	T	G	G	T	T	T	C	C	G	G	T	T	C	C	G	A	T	A	C	C	C	A	T	G	T	G	A	A	G	G	G	C	C	T	T	C	C	C	A
Rh1-58 CS	A	A	A	A	A	G	C	A	T	G	G	A	A	A	K	A	A	T	G	A	T	T	A	A	T	T	G	A	A	T	T	A	W	T	T	K	T	A	G	C	G	T	G	G	T	T	T	C	C	G	R	T	T	C	C	G	A	T	A	C	C	C	A	W	G	T	G	A	A	G	G	G	C	C	T	T	C	C	C	A
Rh1-60 SS	A	A	A	A	A	G	C	A	T	G	G	A	A	A	T	A	A	T	G	A	T	T	A	A	T	T	G	A	A	T	T	A	T	T	T	T	A	G	C	G	T	G	G	T	T	T	C	C	G	A	T	T	C	C	G	A	T	A	C	C	C	A	A	G	T	G	A	A	G	G	G	C	C	T	T	C	C	C	A	
Bar1a 3 CC	A	A	A	A	A	R	C	A	T	G	G	A	A	A	G	A	A	T	G	A	T	T	A	A	T	T	G	A	A	T	T	A	A	T	T	G	T	A	G	C	G	T	G	G	T	T	T	C	C	G	G	T	T	C	C	G	A	T	A	C	C	C	A	T	G	T	G	A	A	G	G	G	C	C	T	T	C	C	C	A
Bar1a 4 CC	A	A	A	A	A	A	C	A	T	G	G	A	A	A	G	A	A	T	G	A	T	T	A	A	T	T	G	A	A	T	T	A	A	T	T	G	T	A	G	C	G	T	G	G	T	T	T	C	C	G	G	T	T	C	C	G	A	T	A	C	C	C	A	T	G	T	G	A	A	G	G	G	C	C	T	T	C	C	C	A
Bar1a 5 CC	A	A	A	A	A	R	C	A	T	G	G	A	A	A	G	A	A	T	G	A	T	T	A	A	T	T	G	A	A	T	T	A	A	T	T	G	T	A	G	C	G	T	G	G	T	T	T	C	C	G	G	T	T	C	C	G	A	T	A	C	C	C	A	T	G	T	G	A	A	G	G	G	C	C	T	T	C	C	C	A
Bar1a 6 CC	A	A	A	A	A	G	C	A	T	G	G	A	A	A	G	A	A	T	G	A	T	T	A	A	T	T	G	A	A	T	T	A	A	T	T	G	T	A	G	C	G	T	G	G	T	T	T	C	C	G	G	T	T	C	C	G	A	T	A	C	C	C	A	T	G	T	G	A	A	G	G	G	C	C	T	T	C	C	C	A
Bar1a 8 CC	A	A	A	A	A	A	C	A	T	G	G	A	A	A	G	A	A	T	G	A	T	T	A	A	T	T	G	A	A	T	T	A	A	T	T	G	T	A	G	C	G	T	G	G	T	T	T	C	C	G	G	T	T	C	C	G	A	T	A	C	C	C	A	T	G	T	G	A	A	G	G	G	C	C	T	T	C	C	C	A
Bar1a 9 CC	A	A	A	A	A	R	C	A	T	G	G	A	A	A	G	A	A	T	G	A	T	T	A	A	T	T	G	A	A	T	T	A	A	T	T	G	T	A	G	C	G	T	G	G	T	T	T	C	C	G	G	T	T	C	C	G	A	T	A	C	C	C	A	T	G	T	G	A	A	G	G	G	C	C	T	T	C	C	C	A
Bar1a 10 CC	A	A	A	A	A	G	C	A	T	G	G	A	A	A	G	A	A	T	G	A	T	T	A	A	T	T	G	A	A	T	T	A	A	T	T	G	T	A	G	C	G	T	G	G	T	T	T	C	C	G	G	T	T	C	C	G	A	T	A	C	C	C	A	T	G	T	G	A	A	G	G	G	C	C	T	T	C	C	C	A
Bar1a 11 CC	A	A	A	A	A	R	C	A	T	G	G	A	A	A	G	A	A	T	G	A	T	T	A	A	T	T	G	A	A	T	T	A	A	T	T	G	T	A	G	C	G	T	G	G	T	T	T	C	C	G	G	T	T	C	C	G	A	T	A	C	C	C	A	T	G	T	G	A	A	G	G	G	C	C	T	T	C	C	C	A
Bar1a 13 CC	A	A	A	A	A	R	C	A	T	G	G	A	A	A	G	A	A	T	G	A	T	T	A	A	T	T	G	A	A	T	T	A	A	T	T	G	T	A	G	C	G	T	G	G	T	T	T	C	C	G	G	T	T	C	C	G	A	T	A	C	C	C	A	T	G	T	G	A	A	G	G	G	C	C	T	T	C	C	C	A
Bar1a 14 CC	A	A	A	A	A	G	C	A	T	G	G	A	A	A	G	A	A	T	G	A	T	T	A	A	T	T	G	A	A	T	T	A	A	T	T	G	T	A	G	C	G	T	G	G	T	T	T	C	C	G	G	T	T	C	C	G	A	T	A	C	C	C	A	T	G	T	G	A	A	G	G	G	C	C	T	T	C	C	C	A
Bar1a 15 CC	A	A	A	A	A	R	C	A	T	G	G	A	A	A	G	A	A	T	G	A	T	T	A	A	T	T	G	A	A	T	T	A	A	T	T	G	T	A	G	C	G	T	G	G	T	T	T	C	C	G	G	T	T	C	C	G	A	T	A	C	C	C	A	T	G	T	G	A	A	G	G	G	C	C	T	T	C	C	C	A
Bar1a 16 CC	A	A	A	A	A	R	C	A	T	G	G	A	A	A	G	A	A	T	G	A	T	T	A	A	T	T	G	A	A	T	T	A	A	T	T	G	T	A	G	C	G	T	G	G	T	T	T	C	C	G	G	T	T	C	C	G	A	T	A	C	C	C	A	T	G	T	G	A	A	G	G	G	C	C	T	T	C	C	C	A
Bar1a 17 CC	A	A	A	A	A	G	C	A	T	G	G	A	A	A	G	A	A	T	G	A	T	T	A	A	T	T	G	A	A	T	T	A	A	T	T	G	T	A	G	C	G	T	G	G	T	T	T	C	C	G	G	T	T	C	C	G	A	T	A	C	C	C	A	T	G	T	G	A	A	G	G	G	C	C	T	T	C	C	C	A
Bar1a 18 CC	A	A	A	A	A	R	C	A	T	G	G	A	A	A	G	A	A	T	G	A	T	T	A	A	T	T	G	A	A	T	T	A	A	T	T	G	T	A	G	C	G	T	G	G	T	T	T	C	C	G	G</																													

	1	10	20	30	40	50	60	70	80																																																																						
Coos 3 CC	A	A	A	A	A	G	C	A	T	G	G	A	A	A	G	A	A	T	G	A	T	T	A	A	T	T	G	A	A	T	T	A	A	T	T	G	T	A	G	C	G	T	G	G	T	T	C	C	G	G	T	T	C	C	G	A	T	A	C	C	C	A	T	G	T	G	A	A	G	G	G	C	C	T	T	C	C	C	A
CABC1 CC	A	A	A	A	A	G	C	A	T	G	G	A	A	A	G	A	A	T	G	A	T	T	A	A	T	T	G	A	A	T	T	A	A	T	T	G	T	A	G	C	G	T	G	G	T	T	C	C	G	G	T	T	C	C	G	A	T	A	C	C	C	A	T	G	T	G	A	A	G	G	G	C	C	T	T	C	C	C	A
CABC2 CS	A	A	A	A	A	G	C	A	T	G	G	A	A	A	K	A	A	T	G	A	T	T	A	A	T	T	G	A	A	T	T	A	W	T	T	K	T	A	G	C	G	T	G	G	T	T	C	C	G	R	T	T	C	C	G	A	T	A	C	C	C	A	W	G	T	G	A	A	G	G	G	C	C	T	T	C	C	C	A
CABC3 CC	A	A	A	A	A	G	C	A	T	G	G	A	A	A	G	A	A	T	G	A	T	T	A	A	T	T	G	A	A	T	T	A	A	T	T	G	T	A	G	C	G	T	G	G	T	T	C	C	G	G	T	T	C	C	G	A	T	A	C	C	C	A	T	G	T	G	A	A	G	G	G	C	C	T	T	C	C	C	A
CABC4 CC	A	A	A	A	A	G	C	A	T	G	G	A	A	A	G	A	A	T	G	A	T	T	A	A	T	T	G	A	A	T	T	A	A	T	T	G	T	A	G	C	G	T	G	G	T	T	C	C	G	G	T	T	C	C	G	A	T	A	C	C	C	A	T	G	T	G	A	A	G	G	G	C	C	T	T	C	C	C	A
CABC5 CS	A	A	A	A	A	G	C	A	T	G	G	A	A	A	K	A	A	T	G	A	T	T	A	A	T	T	G	A	A	T	T	A	W	T	T	K	T	A	G	C	G	T	G	G	T	T	C	C	G	R	T	T	C	C	G	A	T	A	C	C	C	A	W	G	T	G	A	A	G	G	G	C	C	T	T	C	C	C	A
CASM1 CS	A	A	A	A	A	G	C	A	T	G	G	A	A	A	K	A	A	T	G	A	T	T	A	A	T	T	G	A	A	T	T	A	W	T	T	K	T	A	G	C	G	T	G	G	T	T	C	C	G	R	T	T	C	C	G	A	T	A	C	C	C	A	W	G	T	G	A	A	G	G	G	C	C	T	T	C	C	C	A
CASM3 CS	A	A	A	A	A	G	C	A	T	G	G	A	A	A	K	A	A	T	G	A	T	T	A	A	T	T	G	A	A	T	T	A	W	T	T	K	T	A	G	C	G	T	G	G	T	T	C	C	G	R	T	T	C	C	G	A	T	A	C	C	C	A	W	G	T	G	A	A	G	G	G	C	C	T	T	C	C	C	A
CASM9 CC	A	A	A	A	A	G	C	A	T	G	G	A	A	A	G	A	A	T	G	A	T	T	A	A	T	T	G	A	A	T	T	A	A	T	T	G	T	A	G	C	G	T	G	G	T	T	C	C	G	G	T	T	C	C	G	A	T	A	C	C	C	A	T	G	T	G	A	A	G	G	G	C	C	T	T	C	C	C	A
CASM11 CC	A	A	A	A	A	G	C	A	T	G	G	A	A	A	G	A	A	T	G	A	T	T	A	A	T	T	G	A	A	T	T	A	A	T	T	G	T	A	G	C	G	T	G	G	T	T	C	C	G	G	T	T	C	C	G	A	T	A	C	C	C	A	T	G	T	G	A	A	G	G	G	C	C	T	T	C	C	C	A
CASM13 CS	A	A	A	A	A	G	C	A	T	G	G	A	A	A	K	A	A	T	G	A	T	T	A	A	T	T	G	A	A	T	T	A	W	T	T	K	T	A	G	C	G	T	G	G	T	T	C	C	G	R	T	T	C	C	G	A	T	A	C	C	C	A	W	G	T	G	A	A	G	G	G	C	C	T	T	C	C	C	A
CB5 CC	A	A	A	A	A	G	C	A	T	G	G	A	A	A	G	A	A	T	G	A	T	T	A	A	T	T	G	A	A	T	T	A	A	T	T	G	T	A	G	C	G	T	G	G	T	T	C	C	G	G	T	T	C	C	G	A	T	A	C	C	C	A	T	G	T	G	A	A	G	G	G	C	C	T	T	C	C	C	A
CC2 6 CC	A	A	A	A	A	G	C	A	T	G	G	A	A	A	G	A	A	T	G	A	T	T	A	A	T	T	G	A	A	T	T	A	A	T	T	G	T	A	G	C	G	T	G	G	T	T	C	C	G	G	T	T	C	C	G	A	T	A	C	C	C	A	T	G	T	G	A	A	G	G	G	C	C	T	T	C	C	C	A
CD 2 CC	A	A	A	A	A	G	C	A	T	G	G	A	A	A	G	A	A	T	G	A	T	T	A	A	T	T	G	A	A	T	T	A	A	T	T	G	T	A	G	C	G	T	G	G	T	T	C	C	G	G	T	T	C	C	G	A	T	A	C	C	C	A	T	G	T	G	A	A	G	G	G	C	C	T	T	C	C	C	A
UK Gil 1 CL CC	A	A	A	A	A	R	C	A	T	G	G	A	A	A	G	A	A	T	G	A	T	T	A	A	T	T	G	A	A	T	T	A	A	T	T	G	T	A	G	C	G	T	G	G	T	T	C	C	G	G	T	T	C	C	G	A	T	A	C	C	C	A	T	G	T	G	A	A	G	G	G	C	C	T	T	C	C	C	A
UK Gil 3 CC	A	A	A	A	A	R	C	A	T	G	G	A	A	A	G	A	A	T	G	A	T	T	A	A	T	T	G	A	A	T	T	A	A	T	T	G	T	A	G	C	G	T	G	G	T	T	C	C	G	G	T	T	C	C	G	A	T	A	C	C	C	A	T	G	T	G	A	A	G	G	G	C	C	T	T	C	C	C	A
UK Gil 4 CC	A	A	A	A	A	R	C	A	T	G	G	A	A	A	G	A	A	T	G	A	T	T	A	A	T	T	G	A	A	T	T	A	A	T	T	G	T	A	G	C	G	T	G	G	T	T	C	C	G	G	T	T	C	C	G	A	T	A	C	C	C	A	T	G	T	G	A	A	G	G	G	C	C	T	T	C	C	C	A
UK Gil 5 CC	A	A	A	A	A	R	C	A	T	G	G	A	A	A	G	A	A	T	G	A	T	T	A	A	T	T	G	A	A	T	T	A	A	T	T	G	T	A	G	C	G	T	G	G	T	T	C	C	G	G	T	T	C	C	G	A	T	A	C	C	C	A	T	G	T	G	A	A	G	G	G	C	C	T	T	C	C	C	A
UK Gil 6 CC	A	A	A	A	A	R	C	A	T	G	G	A	A	A	G	A	A	T	G	A	T	T	A	A	T	T	G	A	A	T	T	A	A	T	T	G	T	A	G	C	G	T	G	G	T	T	C	C	G	G	T	T	C	C	G	A	T	A	C	C	C	A	T	G	T	G	A	A	G	G	G	C	C	T	T	C	C	C	A
UK Gil 7 CC	A	A	A	A	A	R	C	A	T	G	G	A	A	A	G	A	A	T	G	A	T	T	A	A	T	T	G	A	A	T	T	A	A	T	T	G	T	A	G	C	G	T	G	G	T	T	C	C	G	G	T	T	C	C	G	A	T	A	C	C	C	A	T	G	T	G	A	A	G	G	G	C	C	T	T	C	C	C	A
UK Gil 8 CC	A	A	A	A	A	R	C	A	T	G	G	A	A	A	G	A	A	T	G	A	T	T	A	A	T	T	G	A	A	T	T	A	A	T	T	G	T	A	G	C	G	T	G	G	T	T	C	C	G	G	T	T	C	C	G	A	T	A	C	C	C	A	T	G	T	G	A	A	G	G	G	C	C	T	T	C	C	C	A
Gil 10 CC	A	A	A	A	A	R	C	A	T	G	G	A	A	A	G	A	A	T	G	A	T	T	A	A	T	T	G	A	A	T	T	A	A	T	T	G	T	A	G	C	G	T	G	G	T	T	C	C	G	G	T	T	C	C	G	A	T	A	C	C	C	A	T	G	T	G	A	A	G	G	G	C	C	T	T	C	C	C	A
Gil 11 CC	A	A	A	A	A	R	C	A	T	G	G	A	A	A	G	A	A	T	G	A	T	T	A	A	T	T	G	A	A	T	T	A	A	T	T	G	T	A	G	C	G	T	G	G	T	T	C	C	G	G	T	T	C	C	G	A	T	A	C	C	C	A	T	G	T	G	A	A	G	G	G	C	C	T	T	C	C	C	A
UK NrSalt 1 CC	A	A	A	A	A	R	C	A	T	G	G	A	A	A	G	A	A	T	G	A	T	T	A	A	T	T	G	A	A	T	T	A	A	T	T	G	T	A	G	C	G	T	G	G	T	T	C	C	G	G	T	T	C	C	G	A	T	A	C	C	C	A	T	G	T	G	A	A	G	G	G	C	C	T	T	C	C	C	A
UK NrSalt 2 CC	A	A	A	A	A	R	C	A	T	G	G	A	A	A	G	A	A	T	G	A	T	T	A	A	T	T	G	A	A	T	T	A	A	T	T	G	T	A	G	C	G	T	G	G	T	T	C	C	G	G	T	T	C	C	G	A	T	A	C	C	C	A	T	G	T	G	A	A	G	G	G	C	C	T	T	C	C	C	A
UK NrSalt 3 CC	A	A	A	A	A	R	C	A	T	G	G	A	A	A	G	A	A	T	G	A	T	T	A	A	T	T	G	A	A	T	T	A	A	T	T	G	T	A	G	C	G	T	G	G	T	T	C	C	G	G	T	T	C	C	G	A	T	A	C	C	C	A	T	G	T	G	A	A	G	G	G	C	C	T	T	C	C	C	A
UK NrSalt 4 CC	A	A	A	A	A	R	C	A	T	G	G	A	A	A	G	A	A	T	G	A	T	T	A	A	T	T	G	A	A	T	T	A	A	T	T	G	T	A	G	C	G	T	G	G	T	T	C	C	G	G	T	T	C	C	G	A	T	A	C	C	C	A	T	G	T	G	A	A	G	G	G	C	C	T	T	C	C	C	A
UK NrSalt 5 CC	A	A	A	A	A	R	C	A	T	G	G	A	A	A	G	A	A	T	G	A	T	T	A	A	T	T	G	A	A	T	T	A	A	T	T	G	T	A	G	C	G	T	G	G	T	T	C	C	G	G	T	T	C	C	G	A	T	A	C	C	C	A	T	G	T	G	A	A	G	G	G	C	C	T	T	C	C	C	A
UK NrSalt 6 CC	A	A	A	A	A	R	C	A	T	G	G	A	A	A	G	A	A	T	G	A	T	T	A	A	T	T	G	A	A	T	T	A	A	T	T	G	T	A	G	C	G	T	G	G	T	T	C	C	G	G	T	T	C	C	G	A	T	A	C	C	C	A	T	G	T	G	A	A	G	G	G	C	C	T	T	C	C	C	A
UK NrSalt 7 CC	A	A	A	A	A	R	C	A	T	G	G	A	A	A	G	A	A	T	G	A	T	T	A	A	T	T	G	A	A	T	T	A	A	T	T	G	T	A	G	C	G	T	G	G	T	T	C	C	G	G	T	T	C	C	G	A	T	A	C	C	C	A	T	G	T	G	A	A	G	G	G	C	C	T	T	C	C	C	A
UK NrSalt 8 CC	A	A	A	A	A	R	C																																																																								

	81	90	100	110	120	130	140	150	159																																																																				
NS D88 02 CS	T	G	G	G	G	A	C	T	C	C	C	T	G	G	G	C	A	G	T	T	T	Y	G	A	C	T	T	C	T	A	A	A	A	G	C	A	A	G	T	C	A	T	A	C	C	C	G	T	C	T	G	T	C	C	A	G	G	T	A	A	T	T	C	T	A	T	T	G	T	T	T	A	C	C	T	G	A
NS D88 03 CC	T	G	G	G	G	A	C	T	C	C	C	T	G	G	G	C	A	G	T	T	T	C	G	A	C	T	T	Y	T	A	A	A	A	G	C	A	A	G	T	C	A	T	A	C	C	C	G	T	C	T	G	T	C	C	A	G	G	T	A	A	T	T	C	T	A	T	T	G	T	T	T	A	C	C	T	C	A
NS D88 04 CS	T	G	G	G	G	A	C	T	C	C	C	T	G	G	G	C	A	G	T	T	T	C	G	A	C	T	T	C	T	A	A	A	A	G	C	A	A	G	T	C	A	T	A	C	C	C	G	T	C	T	G	T	C	C	A	G	G	T	A	A	T	T	C	T	A	T	T	G	T	T	T	A	C	C	T	S	A
NS D296 03 SS	T	G	G	G	G	A	C	T	C	C	C	T	G	G	G	C	A	G	T	T	T	Y	G	A	C	T	T	C	T	A	A	A	A	G	C	A	A	G	T	C	A	T	A	C	C	C	G	T	C	T	G	T	C	C	A	G	G	T	A	A	T	T	C	T	A	T	T	G	T	T	T	A	C	C	T	G	A
NS D296 07 CS	T	G	G	G	G	A	C	T	C	C	C	T	G	G	G	C	A	G	T	T	T	C	G	A	C	T	T	C	T	A	A	A	A	G	C	A	A	G	T	C	A	T	A	C	C	C	G	T	C	T	G	T	C	C	A	G	G	T	A	A	T	T	C	T	A	T	T	G	T	T	T	A	C	C	T	S	A
NS D296 08 CS	T	G	G	G	G	A	C	T	C	C	C	T	G	G	G	C	A	G	T	T	T	C	G	A	C	T	T	C	T	A	A	A	A	G	C	A	A	G	T	C	A	T	A	C	C	C	G	T	C	T	G	T	C	C	A	G	G	T	A	A	T	T	C	T	A	T	T	G	T	T	T	A	C	C	T	S	A
NS D296 09 CS	T	G	G	G	G	A	C	T	C	C	C	T	G	G	G	C	A	G	T	T	T	Y	G	A	C	T	T	C	T	A	A	A	A	G	C	A	A	G	T	C	A	T	A	C	C	C	G	T	C	T	G	T	C	C	A	G	G	T	A	A	T	T	C	T	A	T	T	G	T	T	T	A	C	C	T	G	A
NS D296 11 CS	T	G	G	G	G	A	C	T	C	C	C	T	G	G	G	C	A	G	T	T	T	C	G	A	C	T	T	C	T	A	A	A	A	G	C	A	A	G	T	C	A	T	A	C	C	C	G	T	C	T	G	T	C	C	A	G	G	T	A	A	T	T	C	T	A	T	T	G	T	T	T	A	C	C	T	G	A
NS D296 12 CS	T	G	G	G	G	A	C	T	C	C	C	T	G	G	G	C	A	G	T	T	T	C	G	A	C	T	T	C	T	A	A	A	A	G	C	A	A	G	T	C	A	T	A	C	C	C	G	T	C	T	G	T	C	C	A	G	G	T	A	A	T	T	C	T	A	T	T	G	T	T	T	A	C	C	T	S	A
Hal1 4 CS	T	G	G	G	G	A	C	T	C	C	C	T	G	G	G	C	A	G	T	T	T	C	G	A	C	T	T	C	T	A	A	A	A	G	C	A	A	G	T	C	A	T	A	C	C	C	G	T	C	T	G	T	C	C	A	G	G	T	A	A	T	T	C	T	A	T	T	G	T	T	T	A	C	C	T	S	A
Hal1 5 CS	T	G	G	G	G	A	C	T	C	C	C	T	G	G	G	C	A	G	T	T	T	C	G	A	C	T	T	C	T	A	A	A	A	G	C	A	A	G	T	C	A	T	A	C	C	C	G	T	C	T	G	T	C	C	A	G	G	T	A	A	T	T	C	T	A	T	T	G	T	T	T	A	C	C	T	S	A
Hal1 6 CS	T	G	G	G	G	A	C	T	C	C	C	T	G	G	G	C	A	G	T	T	T	C	G	A	C	T	T	C	T	A	A	A	A	G	C	A	A	G	T	C	A	T	A	C	C	C	G	T	C	T	G	T	C	C	A	G	G	T	A	A	T	T	C	T	A	T	T	G	T	T	T	A	C	C	T	S	A
Hal1 7 CS	T	G	G	G	G	A	C	T	C	C	C	T	G	G	G	C	A	G	T	T	T	C	G	A	C	T	T	C	T	A	A	A	A	G	C	A	A	G	T	C	A	T	A	C	C	C	G	T	C	T	G	T	C	C	A	G	G	T	A	A	T	T	C	T	A	T	T	G	T	T	T	A	C	C	T	S	A
Hal1 8 CS	T	G	G	G	G	A	C	T	C	C	C	T	G	G	G	C	A	G	T	T	T	C	G	A	C	T	T	C	T	A	A	A	A	G	C	A	A	G	T	C	A	T	A	C	C	C	G	T	C	T	G	T	C	C	A	G	G	T	A	A	T	T	C	T	A	T	T	G	T	T	T	A	C	C	T	S	A
Hal1 9 SS	T	G	G	G	G	A	C	T	C	C	C	T	G	G	G	C	A	G	T	T	T	C	G	A	C	T	T	C	T	A	A	A	A	G	C	A	A	G	T	C	A	T	A	C	C	C	G	T	C	T	G	T	C	C	A	G	G	T	A	A	T	T	C	T	A	T	T	G	T	T	T	A	C	C	T	S	A
Hal1 10 CS	T	G	G	G	G	A	C	T	C	C	C	T	G	G	G	C	A	G	T	T	T	C	G	A	C	T	T	C	T	A	A	A	A	G	C	A	A	G	T	C	A	T	A	C	C	C	G	T	C	T	G	T	C	C	A	G	G	T	A	A	T	T	C	T	A	T	T	G	T	T	T	A	C	C	T	S	A
Hal1 11 CS	T	G	G	G	G	A	C	T	C	C	C	T	G	G	G	C	A	G	T	T	T	C	G	A	C	T	T	C	T	A	A	A	A	G	C	A	A	G	T	C	A	T	A	C	C	C	G	T	C	T	G	T	C	C	A	G	G	T	A	A	T	T	C	T	A	T	T	G	T	T	T	A	C	C	T	S	A
Hal1 12 CS	T	G	G	G	G	A	C	T	C	C	C	T	G	G	G	C	A	G	T	T	T	C	G	A	C	T	T	C	T	A	A	A	A	G	C	A	A	G	T	C	A	T	A	C	C	C	G	T	C	T	G	T	C	C	A	G	G	T	A	A	T	T	C	T	A	T	T	G	T	T	T	A	C	C	T	S	A
Hal1 14 CS	T	G	G	G	G	A	C	T	C	C	C	T	G	G	G	C	A	G	T	T	T	C	G	A	C	T	T	C	T	A	A	A	A	G	C	A	A	G	T	C	A	T	A	C	C	C	G	T	C	T	G	T	C	C	A	G	G	T	A	A	T	T	C	T	A	T	T	G	T	T	T	A	C	C	T	S	A
Hal1 15 CS	T	G	G	G	G	A	C	T	C	C	C	T	G	G	G	C	A	G	T	T	T	C	G	A	C	T	T	C	T	A	A	A	A	G	C	A	A	G	T	C	A	T	A	C	C	C	G	T	C	T	G	T	C	C	A	G	G	T	A	A	T	T	C	T	A	T	T	G	T	T	T	A	C	C	T	S	A
Hal1 16 CS	T	G	G	G	G	A	C	T	C	C	C	T	G	G	G	C	A	G	T	T	T	C	G	A	C	T	T	C	T	A	A	A	A	G	C	A	A	G	T	C	A	T	A	C	C	C	G	T	C	T	G	T	C	C	A	G	G	T	A	A	T	T	C	T	A	T	T	G	T	T	T	A	C	C	T	S	A
Hal1 17 CS	T	G	G	G	G	A	C	T	C	C	C	T	G	G	G	C	A	G	T	T	T	C	G	A	C	T	T	C	T	A	A	A	A	G	C	A	A	G	T	C	A	T	A	C	C	C	G	T	C	T	G	T	C	C	A	G	G	T	A	A	T	T	C	T	A	T	T	G	T	T	T	A	C	C	T	S	A
Hal1 19 CS	T	G	G	G	G	A	C	T	C	C	C	T	G	G	G	C	A	G	T	T	T	C	G	A	C	T	T	C	T	A	A	A	A	G	C	A	A	G	T	C	A	T	A	C	C	C	G	T	C	T	G	T	C	C	A	G	G	T	A	A	T	T	C	T	A	T	T	G	T	T	T	A	C	C	T	S	A
Hal1 20 CS	T	G	G	G	G	A	C	T	C	C	C	T	G	G	G	C	A	G	T	T	T	C	G	A	C	T	T	C	T	A	A	A	A	G	C	A	A	G	T	C	A	T	A	C	C	C	G	T	C	T	G	T	C	C	A	G	G	T	A	A	T	T	C	T	A	T	T	G	T	T	T	A	C	C	T	S	A
Hal1 21 SS	T	G	G	G	G	A	C	T	C	C	C	T	G	G	G	C	A	G	T	T	T	C	G	A	C	T	T	C	T	A	A	A	A	G	C	A	A	G	T	C	A	T	A	C	C	C	G	T	C	T	G	T	C	C	A	G	G	T	A	A	T	T	C	T	A	T	T	G	T	T	T	A	C	C	T	G	A
Hal1 23 CS	T	G	G	G	G	A	C	T	C	C	C	T	G	G	G	C	A	G	T	T	T	C	G	A	C	T	T	C	T	A	A	A	A	G	C	A	A	G	T	C	A	T	A	C	C	C	G	T	C	T	G	T	C	C	A	G	G	T	A	A	T	T	C	T	A	T	T	G	T	T	T	A	C	C	T	S	A
NS F299 1 SS	T	G	G	G	G	A	C	T	C	C	C	T	G	G	G	C	A	G	T	T	T	C	G	A	C	T	T	C	T	A	A	A	A	G	C	A	A	G	T	C	A	T	A	C	C	C	G	T	C	T	G	T	C	C	A	G	G	T	A	A	T	T	C	T	A	T	T	G	T	T	T	A	C	C	T	G	A
NS F299 3 SS	T	G	G	G	G	A	C	T	C	C	C	T	G	G	G	C	A	G	T	T	T	C	G	A	C	T	T	C	T	A	A	A	A	G	C	A	A	G	T	C	A	T	A	C	C	C	G	T	C	T	G	T	C	C	A	G	G	T	A	A	T	T	C	T	A	T	T	G	T	T	T	A	C	C	T	G	A
NS F299 4 CC	T	G	G	G	G	A	C	T	C	C	C	T	G	G	G	C	A	G	T	T	T	C	G	A	C	T	T	C	T	A	A	A	A	G	C	A	A	G	T	C	A	T	A	C	C	C	G	T	C	T	G	T	C	C	A	G	G	T	A	A	T	T	C	T	A	T	T	G	T	T	T	A	C	C	T	C	A
NS F299 5 SS	T	G	G	G	G	A	C	T	C	C	C	T	G	G	G	C	A	G	T	T	T	Y	G	A	C	T	T	C	T	A	A	A	A	G	C	A	A	G	T	C	A	T	A	C	C	C	G	T	C	T	G	T	C	C	A	G	G	T	A	A	T	T	C	T	A	T	T	G	T	T	T	A	C	C	T	G	A
NS F299 6 SS	T	G	G	G	G	A	C	T	C	C	C	T	G	G	G	C	A	G	T	T	T	C	G	A	C	T	T	C	T	A	A	A	A	G	C	A	A	G	T	C	A	T	A	C	C	C	G	T	C	T	G	T</																									

	81	90	100	110	120	130	140	150	159																																																																					
NS B294 7 CC	T	G	G	G	G	A	C	T	C	C	C	T	G	G	G	C	A	G	T	T	T	T	Y	G	A	C	T	T	C	T	A	A	A	A	G	C	A	A	G	T	C	A	T	A	C	C	C	G	T	C	T	G	T	C	C	A	G	G	T	A	A	T	T	C	T	A	T	T	G	T	T	T	A	C	C	T	C	A
NS B294 9 CC	T	G	G	G	G	A	C	T	C	C	C	T	G	G	G	C	A	G	T	T	T	T	C	G	A	C	T	T	C	T	A	A	A	A	G	C	A	A	G	T	C	A	T	A	C	C	C	G	T	C	T	G	T	C	C	A	G	G	T	A	A	T	T	C	T	A	T	T	G	T	T	T	A	C	C	T	C	A
NS B294 10 CC	T	G	G	G	G	A	C	T	C	C	C	T	G	G	G	C	A	G	T	T	T	T	C	G	A	C	T	T	C	T	A	A	A	A	G	C	A	A	G	T	C	A	T	A	C	C	C	G	T	C	T	G	T	C	C	A	G	G	T	A	A	T	T	C	T	A	T	T	G	T	T	T	A	C	C	T	C	A
NS A291 3 CS	T	G	G	G	G	A	C	T	C	C	C	T	G	G	G	C	A	G	T	T	T	T	Y	G	A	C	T	T	C	T	A	A	A	A	G	C	A	A	G	T	C	A	T	A	C	C	C	G	T	C	T	G	T	C	C	A	G	G	T	A	A	T	T	C	T	A	T	T	G	T	T	T	A	C	C	T	C	A
NS A291 4 CC	T	G	G	G	G	A	C	T	C	C	C	T	G	G	G	C	A	G	T	T	T	T	C	G	A	C	T	T	C	T	A	A	A	A	G	C	A	A	G	T	C	A	T	A	C	C	C	G	T	C	T	G	T	C	C	A	G	G	T	A	A	T	T	C	T	A	T	T	G	T	T	T	A	C	C	T	C	A
NS A291 5 CS	T	G	G	G	G	A	C	T	C	C	C	T	G	G	G	C	A	G	T	T	T	T	C	G	A	C	T	T	C	T	A	A	A	A	G	C	A	A	G	T	C	A	T	A	C	C	C	G	T	C	T	G	T	C	C	A	G	G	T	A	A	T	T	C	T	A	T	T	G	T	T	T	A	C	C	T	C	A
NS A291 6 CS	T	G	G	G	G	A	C	T	C	C	C	T	G	G	G	C	A	G	T	T	T	T	C	G	A	C	T	T	C	T	A	A	A	A	G	C	A	A	G	T	C	A	T	A	C	C	C	G	T	C	T	G	T	C	C	A	G	G	T	A	A	T	T	C	T	A	T	T	G	T	T	T	A	C	C	T	C	A
NS A291 7 CS	T	G	G	G	G	A	C	T	C	C	C	T	G	G	G	C	A	G	T	T	T	T	C	G	A	C	T	T	C	T	A	A	A	A	G	C	A	A	G	T	C	A	T	A	C	C	C	G	T	C	T	G	T	C	C	A	G	G	T	A	A	T	T	C	T	A	T	T	G	T	T	T	A	C	C	T	C	A
NS A291 8 CS	T	G	G	G	G	A	C	T	C	C	C	T	G	G	G	C	A	G	T	T	T	T	C	G	A	C	T	T	C	T	A	A	A	A	G	C	A	A	G	T	C	A	T	A	C	C	C	G	T	C	T	G	T	C	C	A	G	G	T	A	A	T	T	C	T	A	T	T	G	T	T	T	A	C	C	T	C	A
NS A291 10 CS	T	G	G	G	G	A	C	T	C	C	C	T	G	G	G	C	A	G	T	T	T	T	C	G	A	C	T	T	C	T	A	A	A	A	G	C	A	A	G	T	C	A	T	A	C	C	C	G	T	C	T	G	T	C	C	A	G	G	T	A	A	T	T	C	T	A	T	T	G	T	T	T	A	C	C	T	C	A
NS A291 11 CS	T	G	G	G	G	A	C	T	C	C	C	T	G	G	G	C	A	G	T	T	T	T	C	G	A	C	T	T	C	T	A	A	A	A	G	C	A	A	G	T	C	A	T	A	C	C	C	G	T	C	T	G	T	C	C	A	G	G	T	A	A	T	T	C	T	A	T	T	G	T	T	T	A	C	C	T	C	A
NS A291 12 CS	T	G	G	G	G	A	C	T	C	C	C	T	G	G	G	C	A	G	T	T	T	T	C	G	A	C	T	T	C	T	A	A	A	A	G	C	A	A	G	T	C	A	T	A	C	C	C	G	T	C	T	G	T	C	C	A	G	G	T	A	A	T	T	C	T	A	T	T	G	T	T	T	A	C	C	T	C	A
NS A291 13 CS	T	G	G	G	G	A	C	T	C	C	C	T	G	G	G	C	A	G	T	T	T	T	Y	G	A	C	T	T	C	T	A	A	A	A	G	C	A	A	G	T	C	A	T	A	C	C	C	G	T	C	T	G	T	C	C	A	G	G	T	A	A	T	T	C	T	A	T	T	G	T	T	T	A	C	C	T	C	A
NS A291 15 CS	T	G	G	G	G	A	C	T	C	C	C	T	G	G	G	C	A	G	T	T	T	T	C	G	A	C	T	T	C	T	A	A	A	A	G	C	A	A	G	T	C	A	T	A	C	C	C	G	T	C	T	G	T	C	C	A	G	G	T	A	A	T	T	C	T	A	T	T	G	T	T	T	A	C	C	T	C	A
NS A291 17 CS	T	G	G	G	G	A	C	T	C	C	C	T	G	G	G	C	A	G	T	T	T	T	C	G	A	C	T	T	C	T	A	A	A	A	G	C	A	A	G	T	C	A	T	A	C	C	C	G	T	C	T	G	T	C	C	A	G	G	T	A	A	T	T	C	T	A	T	T	G	T	T	T	A	C	C	T	C	A
NS A291 18 CS	T	G	G	G	G	A	C	T	C	C	C	T	G	G	G	C	A	G	T	T	T	T	Y	G	A	C	T	T	C	T	A	A	A	A	G	C	A	A	G	T	C	A	T	A	C	C	C	G	T	C	T	G	T	C	C	A	G	G	T	A	A	T	T	C	T	A	T	T	G	T	T	T	A	C	C	T	C	A
NS A291 19 CC	T	G	G	G	G	A	C	T	C	C	C	T	G	G	G	C	A	G	T	T	T	T	Y	G	A	C	T	T	C	T	A	A	A	A	G	C	A	A	G	T	C	A	T	A	C	C	C	G	T	C	T	G	T	C	C	A	G	G	T	A	A	T	T	C	T	A	T	T	G	T	T	T	A	C	C	T	C	A
NS A291 20 CS	T	G	G	G	G	A	C	T	C	C	C	T	G	G	G	C	A	G	T	T	T	T	C	G	A	C	T	T	C	T	A	A	A	A	G	C	A	A	G	T	C	A	T	A	C	C	C	G	T	C	T	G	T	C	C	A	G	G	T	A	A	T	T	C	T	A	T	T	G	T	T	T	A	C	C	T	C	A
NS A291 21 CS	T	G	G	G	G	A	C	T	C	C	C	T	G	G	G	C	A	G	T	T	T	T	C	G	A	C	T	T	C	T	A	A	A	A	G	C	A	A	G	T	C	A	T	A	C	C	C	G	T	C	T	G	T	C	C	A	G	G	T	A	A	T	T	C	T	A	T	T	G	T	T	T	A	C	C	T	C	A
NS E298 1 CC	T	G	G	G	G	A	C	T	C	C	C	T	G	G	G	C	A	G	T	T	T	T	C	G	A	C	T	T	C	T	A	A	A	A	G	C	A	A	G	T	C	A	T	A	C	C	C	G	T	C	T	G	T	C	C	A	G	G	T	A	A	T	T	C	T	A	T	T	G	T	T	T	A	C	C	T	C	A
NS E298 2 CC	T	G	G	G	G	A	C	T	C	C	C	T	G	G	G	C	A	G	T	T	T	T	C	G	A	C	T	T	C	T	A	A	A	A	G	C	A	A	G	T	C	A	T	A	C	C	C	G	T	C	T	G	T	C	C	A	G	G	T	A	A	T	T	C	T	A	T	T	G	T	T	T	A	C	C	T	C	A
NS E298 3 CC	T	G	G	G	G	A	C	T	C	C	C	T	G	G	G	C	A	G	T	T	T	T	Y	G	A	C	T	T	C	T	A	A	A	A	G	C	A	A	G	T	C	A	T	A	C	C	C	G	T	C	T	G	T	C	C	A	G	G	T	A	A	T	T	C	T	A	T	T	G	T	T	T	A	C	C	T	C	A
NS E298 4 SS	T	G	G	G	G	A	C	T	C	C	C	T	G	G	G	C	A	G	T	T	T	T	C	G	A	C	T	T	C	T	A	A	A	A	G	C	A	A	G	T	C	A	T	A	C	C	C	G	T	C	T	G	T	C	C	A	G	G	T	A	A	T	T	C	T	A	T	T	G	T	T	T	A	C	C	T	C	A
NS E298 5 CC	T	G	G	G	G	A	C	T	C	C	C	T	G	G	G	C	A	G	T	T	T	T	C	G	A	C	T	T	C	T	A	A	A	A	G	C	A	A	G	T	C	A	T	A	C	C	C	G	T	C	T	G	T	C	C	A	G	G	T	A	A	T	T	C	T	A	T	T	G	T	T	T	A	C	C	T	C	A
NS E298 6 CC	T	G	G	G	G	A	C	T	C	C	C	T	G	G	G	C	A	G	T	T	T	T	C	G	A	C	T	T	C	T	A	A	A	A	G	C	A	A	G	T	C	A	T	A	C	C	C	G	T	C	T	G	T	C	C	A	G	G	T	A	A	T	T	C	T	A	T	T	G	T	T	T	A	C	C	T	C	A
NS E298 7 CC	T	G	G	G	G	A	C	T	C	C	C	T	G	G	G	C	A	G	T	T	T	T	C	G	A	C	T	T	C	T	A	A	A	A	G	C	A	A	G	T	C	A	T	A	C	C	C	G	T	C	T	G	T	C	C	A	G	G	T	A	A	T	T	C	T	A	T	T	G	T	T	T	A	C	C	T	C	A
NS E298 8 CC	T	G	G	G	G	A	C	T	C	C	C	T	G	G	G	C	A	G	T	T	T	T	C	G	A	C	T	T	C	T	A	A	A	A	G	C	A	A	G	T	C	A	T	A	C	C	C	G	T	C	T	G	T	C	C	A	G	G	T	A	A	T	T	C	T	A	T	T	G	T	T	T	A	C	C	T	C	A
NS E298 9 CC	T	G	G	G	G	A	C	T	C	C	C	T	G	G	G	C	A	G	T	T	T	T	Y	G	A	C	T	T	C	T	A	A	A	A	G	C	A	A	G	T	C	A	T	A	C	C	C	G	T	C	T	G	T	C	C	A	G	G	T	A	A	T	T	C	T	A	T	T	G	T	T	T	A	C	C	T	C	A
NS E298 10 CC	T	G	G	G	G	A	C	T	C	C	C	T	G	G	G	C	A	G	T	T	T	T	Y	G	A	C	T	T	C	T	A	A	A	A	G	C	A	A	G	T	C	A	T	A	C	C	C	G	T	C	T	G	T	C	C	A	G	G	T	A	A	T	T	C	T	A	T	T	G	T	T	T	A	C	C	T	C	A
KNG 1 1 CC	T	G	G	G	G	A	C	T	C	C	C	T	G	G	G	C	A	G	T	T	T	T	C	G	A	C	T	T	C	T	A	A	A	A	G	C	A	A	G	T	C	A	T	A	C	C	C	G	T	C	T	G	T	C	C	A	G	G	T	A	A	T	T	C	T	A	T	T	G	T	T	T	A	C	C	T	C	A
KNG 1 2 CC	T	G	G	G	G	A	C	T	C	C	C	T	G</																																																																	

	81	90	100	110	120	130	140	150	159																																																																						
KNG 3 5 CC	T	G	G	G	G	G	A	C	T	C	C	C	T	G	G	G	C	A	G	T	T	T	T	C	G	A	C	T	T	C	T	A	A	A	A	G	C	A	A	G	T	C	A	T	A	C	C	C	G	T	C	T	G	T	C	C	A	G	G	T	A	A	T	T	C	T	A	T	T	G	T	T	T	A	C	C	T	C	A
KNG 3 6 CC	T	G	G	G	G	G	A	C	T	C	C	C	T	G	G	G	C	A	G	T	T	T	T	C	G	A	C	T	T	C	T	A	A	A	A	G	C	A	A	G	T	C	A	T	A	C	C	C	G	T	C	T	G	T	C	C	A	G	G	T	A	A	T	T	C	T	A	T	T	G	T	T	T	A	C	C	T	C	A
KNG 3 7 CC	T	G	G	G	G	G	A	C	T	C	C	C	T	G	G	G	C	A	G	T	T	T	T	C	G	A	C	T	T	C	T	A	A	A	A	G	C	A	A	G	T	C	A	T	A	C	C	C	G	T	C	T	G	T	C	C	A	G	G	T	A	A	T	T	C	T	A	T	T	G	T	T	T	A	C	C	T	C	A
KNG 3 8 CC	T	G	G	G	G	G	A	C	T	C	C	C	T	G	G	G	C	A	G	T	T	T	T	C	G	A	C	T	T	C	T	A	A	A	A	G	C	A	A	G	T	C	A	T	A	C	C	C	G	T	C	T	G	T	C	C	A	G	G	T	A	A	T	T	C	T	A	T	T	G	T	T	T	A	C	C	T	C	A
KNG 3 9 CC	T	G	G	G	G	G	A	C	T	C	C	C	T	G	G	G	C	A	G	T	T	T	T	C	G	A	C	T	T	C	T	A	A	A	A	G	C	A	A	G	T	C	A	T	A	C	C	C	G	T	C	T	G	T	C	C	A	G	G	T	A	A	T	T	C	T	A	T	T	G	T	T	T	A	C	C	T	C	A
KNG 3 10 CC	T	G	G	G	G	G	A	C	T	C	C	C	T	G	G	G	C	A	G	T	T	T	T	C	G	A	C	T	T	C	T	A	A	A	A	G	C	A	A	G	T	C	A	T	A	C	C	C	G	T	C	T	G	T	C	C	A	G	G	T	A	A	T	T	C	T	A	T	T	G	T	T	T	A	C	C	T	C	A
KNG 3 14-CC	T	G	G	G	G	G	A	C	T	C	C	C	T	G	G	G	C	A	G	T	T	T	T	Y	G	A	C	T	T	C	T	A	A	A	A	G	C	A	A	G	T	C	A	T	A	C	C	C	G	T	C	T	G	T	C	C	A	G	G	T	A	A	T	T	C	T	A	T	T	G	T	T	T	A	C	C	T	C	A
NS C1 CC	T	G	G	G	G	G	A	C	T	C	C	C	T	G	G	G	C	A	G	T	T	T	T	Y	G	A	C	T	T	C	T	A	A	A	A	G	C	A	A	G	T	C	A	T	A	C	C	C	G	T	C	T	G	T	C	C	A	G	G	T	A	A	T	T	C	T	A	T	T	G	T	T	T	A	C	C	T	C	A
NS C2 CC	T	G	G	G	G	G	A	C	T	C	C	C	T	G	G	G	C	A	G	T	T	T	T	C	G	A	C	T	T	C	T	A	A	A	A	G	C	A	A	G	T	C	A	T	A	C	C	C	G	T	C	T	G	T	C	C	A	G	G	T	A	A	T	T	C	T	A	T	T	G	T	T	T	A	C	C	T	C	A
NS C3 CC	T	G	G	G	G	G	A	C	T	C	C	C	T	G	G	G	C	A	G	T	T	T	T	C	G	A	C	T	T	C	T	A	A	A	A	G	C	A	A	G	T	C	A	T	A	C	C	C	G	T	C	T	G	T	C	C	A	G	G	T	A	A	T	T	C	T	A	T	T	G	T	T	T	A	C	C	T	C	A
NS C4 CC	T	G	G	G	G	G	A	C	T	C	C	C	T	G	G	G	C	A	G	T	T	T	T	C	G	A	C	T	T	C	T	A	A	A	A	G	C	A	A	G	T	C	A	T	A	C	C	C	G	T	C	T	G	T	C	C	A	G	G	T	A	A	T	T	C	T	A	T	T	G	T	T	T	A	C	C	T	C	A
NS C6 CC	T	G	G	G	G	G	A	C	T	C	C	C	T	G	G	G	C	A	G	T	T	T	T	C	G	A	C	T	T	C	T	A	A	A	A	G	C	A	A	G	T	C	A	T	A	C	C	C	G	T	C	T	G	T	C	C	A	G	G	T	A	A	T	T	C	T	A	T	T	G	T	T	T	A	C	C	T	C	A
NS C9 CC	T	G	G	G	G	G	A	C	T	C	C	C	T	G	G	G	C	A	G	T	T	T	T	C	G	A	C	T	T	C	T	A	A	A	A	G	C	A	A	G	T	C	A	T	A	C	C	C	G	T	C	T	G	T	C	C	A	G	G	T	A	A	T	T	C	T	A	T	T	G	T	T	T	A	C	C	T	C	A
OD 1 CC	T	G	G	G	G	G	A	C	T	C	C	C	T	G	G	G	C	A	G	T	T	T	T	C	G	A	C	T	T	C	T	A	A	A	A	G	C	A	A	G	T	C	A	T	A	C	C	C	G	T	C	T	G	T	C	C	A	G	G	T	A	A	T	T	C	T	A	T	T	G	T	T	T	A	C	C	T	C	A
OD 2 CC	T	G	G	G	G	G	A	C	T	C	C	C	T	G	G	G	C	A	G	T	T	T	T	C	G	A	C	T	T	C	T	A	A	A	A	G	C	A	A	G	T	C	A	T	A	C	C	C	G	T	C	T	G	T	C	C	A	G	G	T	A	A	T	T	C	T	A	T	T	G	T	T	T	A	C	C	T	C	A
OD 3 CC	T	G	G	G	G	G	A	C	T	C	C	C	T	G	G	G	C	A	G	T	T	T	T	C	G	A	C	T	T	C	T	A	A	A	A	G	C	A	A	G	T	C	A	T	A	C	C	C	G	T	C	T	G	T	C	C	A	G	G	T	A	A	T	T	C	T	A	T	T	G	T	T	T	A	C	C	T	C	A
OD 4 CC	T	G	G	G	G	G	A	C	T	C	C	C	T	G	G	G	C	A	G	T	T	T	T	C	G	A	C	T	T	C	T	A	A	A	A	G	C	A	A	G	T	C	A	T	A	C	C	C	G	T	C	T	G	T	C	C	A	G	G	T	A	A	T	T	C	T	A	T	T	G	T	T	T	A	C	C	T	C	A
OD 5 CC	T	G	G	G	G	G	A	C	T	C	C	C	T	G	G	G	C	A	G	T	T	T	T	C	G	A	C	T	T	C	T	A	A	A	A	G	C	A	A	G	T	C	A	T	A	C	C	C	G	T	C	T	G	T	C	C	A	G	G	T	A	A	T	T	C	T	A	T	T	G	T	T	T	A	C	C	T	C	A
OD 9 CC	T	G	G	G	G	G	A	C	T	C	C	C	T	G	G	G	C	A	G	T	T	T	T	C	G	A	C	T	T	C	T	A	A	A	A	G	C	A	A	G	T	C	A	T	A	C	C	C	G	T	C	T	G	T	C	C	A	G	G	T	A	A	T	T	C	T	A	T	T	G	T	T	T	A	C	C	T	C	A
OD2004 3 CC	T	G	G	G	G	G	A	C	T	C	C	C	T	G	G	G	C	A	G	T	T	T	T	C	G	A	C	T	T	C	T	A	A	A	A	G	C	A	A	G	T	C	A	T	A	C	C	C	G	T	C	T	G	T	C	C	A	G	G	T	A	A	T	T	C	T	A	T	T	G	T	T	T	A	C	C	T	C	A
OD2004 4 CC	T	G	G	G	G	G	A	C	T	C	C	C	T	G	G	G	C	A	G	T	T	T	T	C	G	A	C	T	T	C	T	A	A	A	A	G	C	A	A	G	T	C	A	T	A	C	C	C	G	T	C	T	G	T	C	C	A	G	G	T	A	A	T	T	C	T	A	T	T	G	T	T	T	A	C	C	T	C	A
OD2004 6 CC	T	G	G	G	G	G	A	C	T	C	C	C	T	G	G	G	C	A	G	T	T	T	T	C	G	A	C	T	T	C	T	A	A	A	A	G	C	A	A	G	T	C	A	T	A	C	C	C	G	T	C	T	G	T	C	C	A	G	G	T	A	A	T	T	C	T	A	T	T	G	T	T	T	A	C	C	T	C	A
OD2004 7 CC	T	G	G	G	G	G	A	C	T	C	C	C	T	G	G	G	C	A	G	T	T	T	T	C	G	A	C	T	T	C	T	A	A	A	A	G	C	A	A	G	T	C	A	T	A	C	C	C	G	T	C	T	G	T	C	C	A	G	G	T	A	A	T	T	C	T	A	T	T	G	T	T	T	A	C	C	T	C	A
OD2004 10 CC	T	G	G	G	G	G	A	C	T	C	C	C	T	G	G	G	C	A	G	T	T	T	T	C	G	A	C	T	T	C	T	A	A	A	A	G	C	A	A	G	T	C	A	T	A	C	C	C	G	T	C	T	G	T	C	C	A	G	G	T	A	A	T	T	C	T	A	T	T	G	T	T	T	A	C	C	T	C	A
OD2004 14 CC	T	G	G	G	G	G	A	C	T	C	C	C	T	G	G	G	C	A	G	T	T	T	T	C	G	A	C	T	T	C	T	A	A	A	A	G	C	A	A	G	T	C	A	T	A	C	C	C	G	T	C	T	G	T	C	C	A	G	G	T	A	A	T	T	C	T	A	T	T	G	T	T	T	A	C	C	T	C	A
RH 4 CC	T	G	G	G	G	G	A	C	T	C	C	C	T	G	G	G	C	A	G	T	T	T	T	C	G	A	C	T	T	C	T	A	A	A	A	G	C	A	A	G	T	C	A	T	A	C	C	C	G	T	C	T	G	T	C	C	A	G	G	T	A	A	T	T	C	T	A	T	T	G	T	T	T	A	C	C	T	C	A
RH 5 CC	T	G	G	G	G	G	A	C	T	C	C	C	T	G	G	G	C	A	G	T	T	T	T	C	G	A	C	T	T	C	T	A	A	A	A	G	C	A	A	G	T	C	A	T	A	C	C	C	G	T	C	T	G	T	C	C	A	G	G	T	A	A	T	T	C	T	A	T	T	G	T	T	T	A	C	C	T	C	A
RH 6 CC	T	G	G	G	G	G	A	C	T	C	C	C	T	G	G	G	C	A	G	T	T	T	T	C	G	A	C	T	T	C	T	A	A	A	A	G	C	A	A	G	T	C	A	T	A	C	C	C	G	T	C	T	G	T	C	C	A	G	G	T	A	A	T	T	C	T	A	T	T	G	T	T	T	A	C	C	T	C	A
RH 7 CC	T	G	G	G	G	G	A	C	T	C	C	C	T	G	G	G	C	A	G	T	T	T	T	C	G	A	C	T	T	C	T	A	A	A	A	G	C	A	A	G	T	C	A	T	A	C	C	C	G	T	C	T	G	T	C	C	A	G	G	T	A	A	T	T	C	T	A	T	T	G	T	T	T	A	C	C	T	C	A
RH 9 CC	T	G	G	G	G	G	A	C	T	C	C	C	T	G	G	G	C	A	G	T	T	T	T	C	G	A	C	T	T	C	T	A	A	A	A	G	C	A	A	G	T	C	A	T	A	C	C	C	G	T	C	T	G	T	C	C	A	G	G	T	A	A	T	T	C	T	A	T	T	G	T	T	T	A	C	C	T	C	A
RH 10 CC	T	G																																																																													

	81	90	100	110	120	130	140	150	159																																																																					
WSA2 3 CC	T	G	G	G	G	A	C	T	C	C	C	T	G	G	G	C	A	G	T	T	T	T	C	G	A	C	T	T	C	T	A	A	A	A	G	C	A	A	G	T	C	A	T	A	C	C	C	G	T	C	T	G	T	C	C	A	G	G	T	A	A	T	T	C	T	A	T	T	G	T	T	T	A	C	C	T	C	A
Cr 4 CC	T	G	G	G	G	A	C	T	C	C	C	T	G	G	G	C	A	G	T	T	T	T	C	G	A	C	T	T	C	T	A	A	A	A	G	C	A	A	G	T	C	A	T	A	C	C	C	G	T	C	T	G	T	C	C	A	G	G	T	A	A	T	T	C	T	A	T	T	G	T	T	T	A	C	C	T	C	A
Cr CL2004 CC	T	G	G	G	G	A	C	T	C	C	C	T	G	G	G	C	A	G	T	T	T	T	C	G	A	C	T	T	C	T	A	A	A	A	G	C	A	A	G	T	C	A	T	A	C	C	C	G	T	C	T	G	T	C	C	A	G	G	T	A	A	T	T	C	T	A	T	T	G	T	T	T	A	C	C	T	C	A
Cr2004 1 CC	T	G	G	G	G	A	C	T	C	C	C	T	G	G	G	C	A	G	T	T	T	T	C	G	A	C	T	T	C	T	A	A	A	A	G	C	A	A	G	T	C	A	T	A	C	C	C	G	T	C	T	G	T	C	C	A	G	G	T	A	A	T	T	C	T	A	T	T	G	T	T	T	A	C	C	T	C	A
Cr2004 2 CC	T	G	G	G	G	A	C	T	C	C	C	T	G	G	G	C	A	G	T	T	T	T	C	G	A	C	T	T	C	T	A	A	A	A	G	C	A	A	G	T	C	A	T	A	C	C	C	G	T	C	T	G	T	C	C	A	G	G	T	A	A	T	T	C	T	A	T	T	G	T	T	T	A	C	C	T	C	A
Cr2004 3 CC	T	G	G	G	G	A	C	T	C	C	C	T	G	G	G	C	A	G	T	T	T	T	C	G	A	C	T	T	C	T	A	A	A	A	G	C	A	A	G	T	C	A	T	A	C	C	C	G	T	C	T	G	T	C	C	A	G	G	T	A	A	T	T	C	T	A	T	T	G	T	T	T	A	C	C	T	C	A
Cr2004 4 CC	T	G	G	G	G	A	C	T	C	C	C	T	G	G	G	C	A	G	T	T	T	T	C	G	A	C	T	T	C	T	A	A	A	A	G	C	A	A	G	T	C	A	T	A	C	C	C	G	T	C	T	G	T	C	C	A	G	G	T	A	A	T	T	C	T	A	T	T	G	T	T	T	A	C	C	T	C	A
Cr2004 8 CC	T	G	G	G	G	A	C	T	C	C	C	T	G	G	G	C	A	G	T	T	T	T	C	G	A	C	T	T	C	T	A	A	A	A	G	C	A	A	G	T	C	A	T	A	C	C	C	G	T	C	T	G	T	C	C	A	G	G	T	A	A	T	T	C	T	A	T	T	G	T	T	T	A	C	C	T	C	A
Cr2004 10 CC	T	G	G	G	G	A	C	T	C	C	C	T	G	G	G	C	A	G	T	T	T	T	C	G	A	C	T	T	C	T	A	A	A	A	G	C	A	A	G	T	C	A	T	A	C	C	C	G	T	C	T	G	T	C	C	A	G	G	T	A	A	T	T	C	T	A	T	T	G	T	T	T	A	C	C	T	C	A
Cr2004 11 CC	T	G	G	G	G	A	C	T	C	C	C	T	G	G	G	C	A	G	T	T	T	T	C	G	A	C	T	T	C	T	A	A	A	A	G	C	A	A	G	T	C	A	T	A	C	C	C	G	T	C	T	G	T	C	C	A	G	G	T	A	A	T	T	C	T	A	T	T	G	T	T	T	A	C	C	T	C	A
Cr2004 12 CC	T	G	G	G	G	A	C	T	C	C	C	T	G	G	G	C	A	G	T	T	T	T	C	G	A	C	T	T	C	T	A	A	A	A	G	C	A	A	G	T	C	A	T	A	C	C	C	G	T	C	T	G	T	C	C	A	G	G	T	A	A	T	T	C	T	A	T	T	G	T	T	T	A	C	C	T	C	A
Cr2004 13 CC	T	G	G	G	G	A	C	T	C	C	C	T	G	G	G	C	A	G	T	T	T	T	C	G	A	C	T	T	C	T	A	A	A	A	G	C	A	A	G	T	C	A	T	A	C	C	C	G	T	C	T	G	T	C	C	A	G	G	T	A	A	T	T	C	T	A	T	T	G	T	T	T	A	C	C	T	C	A
Cr2004 14 CC	T	G	G	G	G	A	C	T	C	C	C	T	G	G	G	C	A	G	T	T	T	T	C	G	A	C	T	T	C	T	A	A	A	A	G	C	A	A	G	T	C	A	T	A	C	C	C	G	T	C	T	G	T	C	C	A	G	G	T	A	A	T	T	C	T	A	T	T	G	T	T	T	A	C	C	T	C	A
Nep2004 3 CC	T	G	G	G	G	A	C	T	C	C	C	T	G	G	G	C	A	G	T	T	T	T	C	G	A	C	T	T	C	T	A	A	A	A	G	C	A	A	G	T	C	A	T	A	C	C	C	G	T	C	T	G	T	C	C	A	G	G	T	A	A	T	T	C	T	A	T	T	G	T	T	T	A	C	C	T	C	A
Nep2004 5 CC	T	G	G	G	G	A	C	T	C	C	C	T	G	G	G	C	A	G	T	T	T	T	C	G	A	C	T	T	C	T	A	A	A	A	G	C	A	A	G	T	C	A	T	A	C	C	C	G	T	C	T	G	T	C	C	A	G	G	T	A	A	T	T	C	T	A	T	T	G	T	T	T	A	C	C	T	C	A
Nep2004 6 CC	T	G	G	G	G	A	C	T	C	C	C	T	G	G	G	C	A	G	T	T	T	T	C	G	A	C	T	T	C	T	A	A	A	A	G	C	A	A	G	T	C	A	T	A	C	C	C	G	T	C	T	G	T	C	C	A	G	G	T	A	A	T	T	C	T	A	T	T	G	T	T	T	A	C	C	T	C	A
Nep2004 8 CC	T	G	G	G	G	A	C	T	C	C	C	T	G	G	G	C	A	G	T	T	T	T	C	G	A	C	T	T	C	T	A	A	A	A	G	C	A	A	G	T	C	A	T	A	C	C	C	G	T	C	T	G	T	C	C	A	G	G	T	A	A	T	T	C	T	A	T	T	G	T	T	T	A	C	C	T	C	A
Nep2004 9 CC	T	G	G	G	G	A	C	T	C	C	C	T	G	G	G	C	A	G	T	T	T	T	C	G	A	C	T	T	C	T	A	A	A	A	G	C	A	A	G	T	C	A	T	A	C	C	C	G	T	C	T	G	T	C	C	A	G	G	T	A	A	T	T	C	T	A	T	T	G	T	T	T	A	C	C	T	C	A
Nep2004 10 CC	T	G	G	G	G	A	C	T	C	C	C	T	G	G	G	C	A	G	T	T	T	T	C	G	A	C	T	T	C	T	A	A	A	A	G	C	A	A	G	T	C	A	T	A	C	C	C	G	T	C	T	G	T	C	C	A	G	G	T	A	A	T	T	C	T	A	T	T	G	T	T	T	A	C	C	T	C	A
Nep2004 11 CC	T	G	G	G	G	A	C	T	C	C	C	T	G	G	G	C	A	G	T	T	T	T	C	G	A	C	T	T	C	T	A	A	A	A	G	C	A	A	G	T	C	A	T	A	C	C	C	G	T	C	T	G	T	C	C	A	G	G	T	A	A	T	T	C	T	A	T	T	G	T	T	T	A	C	C	T	C	A
Nep2004 12 CC	T	G	G	G	G	A	C	T	C	C	C	T	G	G	G	C	A	G	T	T	T	T	C	G	A	C	T	T	C	T	A	A	A	A	G	C	A	A	G	T	C	A	T	A	C	C	C	G	T	C	T	G	T	C	C	A	G	G	T	A	A	T	T	C	T	A	T	T	G	T	T	T	A	C	C	T	C	A
Nep2004 14 CC	T	G	G	G	G	A	C	T	C	C	C	T	G	G	G	C	A	G	T	T	T	T	C	G	A	C	T	T	C	T	A	A	A	A	G	C	A	A	G	T	C	A	T	A	C	C	C	G	T	C	T	G	T	C	C	A	G	G	T	A	A	T	T	C	T	A	T	T	G	T	T	T	A	C	C	T	C	A
Nep2004 16 CC	T	G	G	G	G	A	C	T	C	C	C	T	G	G	G	C	A	G	T	T	T	T	C	G	A	C	T	T	C	T	A	A	A	A	G	C	A	A	G	T	C	A	T	A	C	C	C	G	T	C	T	G	T	C	C	A	G	G	T	A	A	T	T	C	T	A	T	T	G	T	T	T	A	C	C	T	C	A
Nep2004 17 CC	T	G	G	G	G	A	C	T	C	C	C	T	G	G	G	C	A	G	T	T	T	T	C	G	A	C	T	T	C	T	A	A	A	A	G	C	A	A	G	T	C	A	T	A	C	C	C	G	T	C	T	G	T	C	C	A	G	G	T	A	A	T	T	C	T	A	T	T	G	T	T	T	A	C	C	T	C	A
Nep2004 18 CC	T	G	G	G	G	A	C	T	C	C	C	T	G	G	G	C	A	G	T	T	T	T	C	G	A	C	T	T	C	T	A	A	A	A	G	C	A	A	G	T	C	A	T	A	C	C	C	G	T	C	T	G	T	C	C	A	G	G	T	A	A	T	T	C	T	A	T	T	G	T	T	T	A	C	C	T	C	A
Nep2004 19 CC	T	G	G	G	G	A	C	T	C	C	C	T	G	G	G	C	A	G	T	T	T	T	C	G	A	C	T	T	C	T	A	A	A	A	G	C	A	A	G	T	C	A	T	A	C	C	C	G	T	C	T	G	T	C	C	A	G	G	T	A	A	T	T	C	T	A	T	T	G	T	T	T	A	C	C	T	C	A
Nep2004 20 CC	T	G	G	G	G	A	C	T	C	C	C	T	G	G	G	C	A	G	T	T	T	T	C	G	A	C	T	T	C	T	A	A	A	A	G	C	A	A	G	T	C	A	T	A	C	C	C	G	T	C	T	G	T	C	C	A	G	G	T	A	A	T	T	C	T	A	T	T	G	T	T	T	A	C	C	T	C	A
Nep2004 21 CC	T	G	G	G	G	A	C	T	C	C	C	T	G	G	G	C	A	G	T	T	T	T	C	G	A	C	T	T	C	T	A	A	A	A	G	C	A	A	G	T	C	A	T	A	C	C	C	G	T	C	T	G	T	C	C	A	G	G	T	A	A	T	T	C	T	A	T	T	G	T	T	T	A	C	C	T	C	A
Nep2004 22 CC	T	G	G	G	G	A	C	T	C	C	C	T	G	G	G	C	A	G	T	T	T	T	C	G	A	C	T	T	C	T	A	A	A	A	G	C	A	A	G	T	C	A	T	A	C	C	C	G	T	C	T	G	T	C	C	A	G	G	T	A	A	T	T	C	T	A	T	T	G	T	T	T	A	C	C	T	C	A
Nep2004 23 CC	T	G	G	G	G	A	C	T	C	C	C	T	G	G	G	C	A	G	T	T	T	T	C	G	A	C	T	T	C	T	A	A	A	A	G	C	A	A	G	T	C	A	T	A	C	C	C	G	T	C	T	G	T	C	C	A	G	G	T	A	A	T	T	C	T	A	T	T	G	T	T	T	A	C	C	T	C	A
Nep2004 24 CC	T	G	G	G	G	A	C	T	C	C	C	T	G	G</																																																																

	81	90	100	110	120	130	140	150	159																																																																					
Sipp1 CL1 CC	T	G	G	G	G	A	C	T	C	C	C	T	G	G	G	C	A	G	T	T	T	T	C	G	A	C	T	T	C	T	A	A	A	A	G	C	A	A	G	T	C	A	T	A	C	C	C	G	T	C	T	G	T	C	C	A	G	G	T	A	A	T	T	C	T	A	T	T	G	T	T	T	A	C	C	T	C	A
Sipp 1 CL2 CC	T	G	G	G	G	A	C	T	C	C	C	T	G	G	G	C	A	G	T	T	T	T	C	G	A	C	T	T	C	T	A	A	A	A	G	C	A	A	G	T	C	A	T	A	C	C	C	G	T	C	T	G	T	C	C	A	G	G	T	A	A	T	T	C	T	A	T	T	G	T	T	T	A	C	C	T	C	A
Sipp4 CL1 CC	T	G	G	G	G	A	C	T	C	C	C	T	G	G	G	C	A	G	T	T	T	T	C	G	A	C	T	T	C	T	A	A	A	A	G	C	A	A	G	T	C	A	T	A	C	C	C	G	T	C	T	G	T	C	C	A	G	G	T	A	A	T	T	C	T	A	T	T	G	T	T	T	A	C	C	T	C	A
Sipp04 2 1 CC	T	G	G	G	G	A	C	T	C	C	C	T	G	G	G	C	A	G	T	T	T	T	C	G	A	C	T	T	C	T	A	A	A	A	G	C	A	A	G	T	C	A	T	A	C	C	C	G	T	C	T	G	T	C	C	A	G	G	T	A	A	T	T	C	T	A	T	T	G	T	T	T	A	C	C	T	C	A
Sipp04 2 5 CC	T	G	G	G	G	A	C	T	C	C	C	T	G	G	G	C	A	G	T	T	T	T	C	G	A	C	T	T	C	T	A	A	A	A	G	C	A	A	G	T	C	A	T	A	C	C	C	G	T	C	T	G	T	C	C	A	G	G	T	A	A	T	T	C	T	A	T	T	G	T	T	T	A	C	C	T	C	A
Sipp04 2 7 CC	T	G	G	G	G	A	C	T	C	C	C	T	G	G	G	C	A	G	T	T	T	T	C	G	A	C	T	T	C	T	A	A	A	A	G	C	A	A	G	T	C	A	T	A	C	C	C	G	T	C	T	G	T	C	C	A	G	G	T	A	A	T	T	C	T	A	T	T	G	T	T	T	A	C	C	T	C	A
Sipp04 2 9 CC	T	G	G	G	G	A	C	T	C	C	C	T	G	G	G	C	A	G	T	T	T	T	C	G	A	C	T	T	C	T	A	A	A	A	G	C	A	A	G	T	C	A	T	A	C	C	C	G	T	C	T	G	T	C	C	A	G	G	T	A	A	T	T	C	T	A	T	T	G	T	T	T	A	C	C	T	C	A
Sipp04 2 11 CC	T	G	G	G	G	A	C	T	C	C	C	T	G	G	G	C	A	G	T	T	T	T	C	G	A	C	T	T	C	T	A	A	A	A	G	C	A	A	G	T	C	A	T	A	C	C	C	G	T	C	T	G	T	C	C	A	G	G	T	A	A	T	T	C	T	A	T	T	G	T	T	T	A	C	C	T	C	A
Sipp04 2 14 CC	T	G	G	G	G	A	C	T	C	C	C	T	G	G	G	C	A	G	T	T	T	T	C	G	A	C	T	T	C	T	A	A	A	A	G	C	A	A	G	T	C	A	T	A	C	C	C	G	T	C	T	G	T	C	C	A	G	G	T	A	A	T	T	C	T	A	T	T	G	T	T	T	A	C	C	T	C	A
Sipp04 2 17 CC	T	G	G	G	G	A	C	T	C	C	C	T	G	G	G	C	A	G	T	T	T	T	C	G	A	C	T	T	C	T	A	A	A	A	G	C	A	A	G	T	C	A	T	A	C	C	C	G	T	C	T	G	T	C	C	A	G	G	T	A	A	T	T	C	T	A	T	T	G	T	T	T	A	C	C	T	C	A
Sipp04 3 1 CC	T	G	G	G	G	A	C	T	C	C	C	T	G	G	G	C	A	G	T	T	T	T	C	G	A	C	T	T	C	T	A	A	A	A	G	C	A	A	G	T	C	A	T	A	C	C	C	G	T	C	T	G	T	C	C	A	G	G	T	A	A	T	T	C	T	A	T	T	G	T	T	T	A	C	C	T	C	A
Sipp04 3 3 CC	T	G	G	G	G	A	C	T	C	C	C	T	G	G	G	C	A	G	T	T	T	T	C	G	A	C	T	T	C	T	A	A	A	A	G	C	A	A	G	T	C	A	T	A	C	C	C	G	T	C	T	G	T	C	C	A	G	G	T	A	A	T	T	C	T	A	T	T	G	T	T	T	A	C	C	T	C	A
Sipp04 3 5 CC	T	G	G	G	G	A	C	T	C	C	C	T	G	G	G	C	A	G	T	T	T	T	C	G	A	C	T	T	C	T	A	A	A	A	G	C	A	A	G	T	C	A	T	A	C	C	C	G	T	C	T	G	T	C	C	A	G	G	T	A	A	T	T	C	T	A	T	T	G	T	T	T	A	C	C	T	C	A
Sipp04 3 6 CC	T	G	G	G	G	A	C	T	C	C	C	T	G	G	G	C	A	G	T	T	T	T	C	G	A	C	T	T	C	T	A	A	A	A	G	C	A	A	G	T	C	A	T	A	C	C	C	G	T	C	T	G	T	C	C	A	G	G	T	A	A	T	T	C	T	A	T	T	G	T	T	T	A	C	C	T	C	A
Sipp 13 15 CC	T	G	G	G	G	A	C	T	C	C	C	T	G	G	G	C	A	G	T	T	T	T	C	G	A	C	T	T	C	T	A	A	A	A	G	C	A	A	G	T	C	A	T	A	C	C	C	G	T	C	T	G	T	C	C	A	G	G	T	A	A	T	T	C	T	A	T	T	G	T	T	T	A	C	C	T	C	A
Sipp 14 1 CC	T	G	G	G	G	A	C	T	C	C	C	T	G	G	G	C	A	G	T	T	T	T	C	G	A	C	T	T	C	T	A	A	A	A	G	C	A	A	G	T	C	A	T	A	C	C	C	G	T	C	T	G	T	C	C	A	G	G	T	A	A	T	T	C	T	A	T	T	G	T	T	T	A	C	C	T	C	A
Sipp 14 2 CC	T	G	G	G	G	A	C	T	C	C	C	T	G	G	G	C	A	G	T	T	T	T	C	G	A	C	T	T	C	T	A	A	A	A	G	C	A	A	G	T	C	A	T	A	C	C	C	G	T	C	T	G	T	C	C	A	G	G	T	A	A	T	T	C	T	A	T	T	G	T	T	T	A	C	C	T	C	A
Sipp 14 3 CC	T	G	G	G	G	A	C	T	C	C	C	T	G	G	G	C	A	G	T	T	T	T	C	G	A	C	T	T	C	T	A	A	A	A	G	C	A	A	G	T	C	A	T	A	C	C	C	G	T	C	T	G	T	C	C	A	G	G	T	A	A	T	T	C	T	A	T	T	G	T	T	T	A	C	C	T	C	A
Sipp 14 4 CC	T	G	G	G	G	A	C	T	C	C	C	T	G	G	G	C	A	G	T	T	T	T	C	G	A	C	T	T	C	T	A	A	A	A	G	C	A	A	G	T	C	A	T	A	C	C	C	G	T	C	T	G	T	C	C	A	G	G	T	A	A	T	T	C	T	A	T	T	G	T	T	T	A	C	C	T	C	A
Sipp 14 5 CC	T	G	G	G	G	A	C	T	C	C	C	T	G	G	G	C	A	G	T	T	T	T	C	G	A	C	T	T	C	T	A	A	A	A	G	C	A	A	G	T	C	A	T	A	C	C	C	G	T	C	T	G	T	C	C	A	G	G	T	A	A	T	T	C	T	A	T	T	G	T	T	T	A	C	C	T	C	A
Sipp 14 6 CC	T	G	G	G	G	A	C	T	C	C	C	T	G	G	G	C	A	G	T	T	T	T	C	G	A	C	T	T	C	T	A	A	A	A	G	C	A	A	G	T	C	A	T	A	C	C	C	G	T	C	T	G	T	C	C	A	G	G	T	A	A	T	T	C	T	A	T	T	G	T	T	T	A	C	C	T	C	A
Sipp 14 7 CC	T	G	G	G	G	A	C	T	C	C	C	T	G	G	G	C	A	G	T	T	T	T	C	G	A	C	T	T	C	T	A	A	A	A	G	C	A	A	G	T	C	A	T	A	C	C	C	G	T	C	T	G	T	C	C	A	G	G	T	A	A	T	T	C	T	A	T	T	G	T	T	T	A	C	C	T	C	A
Sipp 14 8 CC	T	G	G	G	G	A	C	T	C	C	C	T	G	G	G	C	A	G	T	T	T	T	C	G	A	C	T	T	C	T	A	A	A	A	G	C	A	A	G	T	C	A	T	A	C	C	C	G	T	C	T	G	T	C	C	A	G	G	T	A	A	T	T	C	T	A	T	T	G	T	T	T	A	C	C	T	C	A
Sipp 14 9 CC	T	G	G	G	G	A	C	T	C	C	C	T	G	G	G	C	A	G	T	T	T	T	C	G	A	C	T	T	C	T	A	A	A	A	G	C	A	A	G	T	C	A	T	A	C	C	C	G	T	C	T	G	T	C	C	A	G	G	T	A	A	T	T	C	T	A	T	T	G	T	T	T	A	C	C	T	C	A
Sipp 14 10 CC	T	G	G	G	G	A	C	T	C	C	C	T	G	G	G	C	A	G	T	T	T	T	C	G	A	C	T	T	C	T	A	A	A	A	G	C	A	A	G	T	C	A	T	A	C	C	C	G	T	C	T	G	T	C	C	A	G	G	T	A	A	T	T	C	T	A	T	T	G	T	T	T	A	C	C	T	C	A
Sipp 14 11 CC	T	G	G	G	G	A	C	T	C	C	C	T	G	G	G	C	A	G	T	T	T	T	C	G	A	C	T	T	C	T	A	A	A	A	G	C	A	A	G	T	C	A	T	A	C	C	C	G	T	C	T	G	T	C	C	A	G	G	T	A	A	T	T	C	T	A	T	T	G	T	T	T	A	C	C	T	C	A
Sipp 14 12 CC	T	G	G	G	G	A	C	T	C	C	C	T	G	G	G	C	A	G	T	T	T	T	C	G	A	C	T	T	C	T	A	A	A	A	G	C	A	A	G	T	C	A	T	A	C	C	C	G	T	C	T	G	T	C	C	A	G	G	T	A	A	T	T	C	T	A	T	T	G	T	T	T	A	C	C	T	C	A
Sipp 14 13 CC	T	G	G	G	G	A	C	T	C	C	C	T	G	G	G	C	A	G	T	T	T	T	C	G	A	C	T	T	C	T	A	A	A	A	G	C	A	A	G	T	C	A	T	A	C	C	C	G	T	C	T	G	T	C	C	A	G	G	T	A	A	T	T	C	T	A	T	T	G	T	T	T	A	C	C	T	C	A
Sipp 14 14 CC	T	G	G	G	G	A	C	T	C	C	C	T	G	G	G	C	A	G	T	T	T	T	C	G	A	C	T	T	C	T	A	A	A	A	G	C	A	A	G	T	C	A	T	A	C	C	C	G	T	C	T	G	T	C	C	A	G	G	T	A	A	T	T	C	T	A	T	T	G	T	T	T	A	C	C	T	C	A
Sipp 14 15 CC	T	G	G	G	G	A	C	T	C	C	C	T	G	G	G	C	A	G	T	T	T	T	C	G	A	C	T	T	C	T	A	A	A	A	G	C	A	A	G	T	C	A	T	A	C	C	C	G	T	C	T	G	T	C	C	A	G	G	T	A	A	T	T	C	T	A	T	T	G	T	T	T	A	C	C	T	C	A
Sipp 15 1 CC	T	G	G	G	G	A	C	T	C	C	C	T	G	G	G	C	A	G	T																																																											

	81	90	100	110	120	130	140	150	159																																																																						
NJM 1 4 CC	T	G	G	G	G	G	A	C	T	C	C	C	T	G	G	G	C	A	G	T	T	T	T	C	G	A	C	T	T	C	T	A	A	A	A	G	C	A	A	G	T	C	A	T	A	C	C	C	G	T	C	T	G	T	C	C	A	G	G	T	A	A	T	T	C	T	A	T	T	G	T	T	T	A	C	C	T	C	A
NJM 1 5 CC	T	G	G	G	G	G	A	C	T	C	C	C	T	G	G	G	C	A	G	T	T	T	T	C	G	A	C	T	T	C	T	A	A	A	A	G	C	A	A	G	T	C	A	T	A	C	C	C	G	T	C	T	G	T	C	C	A	G	G	T	A	A	T	T	C	T	A	T	T	G	T	T	T	A	C	C	T	C	A
NJM 1 8 CC	T	G	G	G	G	G	A	C	T	C	C	C	T	G	G	G	C	A	G	T	T	T	T	C	G	A	C	T	T	C	T	A	A	A	A	G	C	A	A	G	T	C	A	T	A	C	C	C	G	T	C	T	G	T	C	C	A	G	G	T	A	A	T	T	C	T	A	T	T	G	T	T	T	A	C	C	T	C	A
NJM 1 9 CC	T	G	G	G	G	G	A	C	T	C	C	C	T	G	G	G	C	A	G	T	T	T	T	C	G	A	C	T	T	C	T	A	A	A	A	G	C	A	A	G	T	C	A	T	A	C	C	C	G	T	C	T	G	T	C	C	A	G	G	T	A	A	T	T	C	T	A	T	T	G	T	T	T	A	C	C	T	C	A
NJM 1 10 CC	T	G	G	G	G	G	A	C	T	C	C	C	T	G	G	G	C	A	G	T	T	T	T	C	G	A	C	T	T	C	T	A	A	A	A	G	C	A	A	G	T	C	A	T	A	C	C	C	G	T	C	T	G	T	C	C	A	G	G	T	A	A	T	T	C	T	A	T	T	G	T	T	T	A	C	C	T	C	A
NJM 1 11 CC	T	G	G	G	G	G	A	C	T	C	C	C	T	G	G	G	C	A	G	T	T	T	T	C	G	A	C	T	T	C	T	A	A	A	A	G	C	A	A	G	T	C	A	T	A	C	C	C	G	T	C	T	G	T	C	C	A	G	G	T	A	A	T	T	C	T	A	T	T	G	T	T	T	A	C	C	T	C	A
Rh1 CS	T	G	G	G	G	G	A	C	T	C	C	C	T	G	G	G	C	A	G	T	T	T	T	C	G	A	C	T	T	C	T	A	A	A	A	G	C	A	A	G	T	C	A	T	A	C	C	C	G	T	C	T	G	T	C	C	A	G	G	T	A	A	T	T	C	T	A	T	T	G	T	T	T	A	C	C	T	C	A
Rh3 SS	T	G	G	G	G	G	A	C	T	C	C	C	T	G	G	G	C	A	G	T	T	T	T	C	G	A	C	T	T	C	T	A	A	A	A	G	C	A	A	G	T	C	A	T	A	C	C	C	G	T	C	T	G	T	C	C	A	G	G	T	A	A	T	T	C	T	A	T	T	G	T	T	T	A	C	C	T	C	A
Rh5 SS	T	G	G	G	G	G	A	C	T	C	C	C	T	G	G	G	C	A	G	T	T	T	T	C	G	A	C	T	T	C	T	A	A	A	A	G	C	A	A	G	T	C	A	T	A	C	C	C	G	T	C	T	G	T	C	C	A	G	G	T	A	A	T	T	C	T	A	T	T	G	T	T	T	A	C	C	T	C	A
Rh6 CS	T	G	G	G	G	G	A	C	T	C	C	C	T	G	G	G	C	A	G	T	T	T	T	C	G	A	C	T	T	C	T	A	A	A	A	G	C	A	A	G	T	C	A	T	A	C	C	C	G	T	C	T	G	T	C	C	A	G	G	T	A	A	T	T	C	T	A	T	T	G	T	T	T	A	C	C	T	C	A
Rh8 CS	T	G	G	G	G	G	A	C	T	C	C	C	T	G	G	G	C	A	G	T	T	T	T	C	G	A	C	T	T	C	T	A	A	A	A	G	C	A	A	G	T	C	A	T	A	C	C	C	G	T	C	T	G	T	C	C	A	G	G	T	A	A	T	T	C	T	A	T	T	G	T	T	T	A	C	C	T	C	A
Rh9 CC	T	G	G	G	G	G	A	C	T	C	C	C	T	G	G	G	C	A	G	T	T	T	T	C	G	A	C	T	T	C	T	A	A	A	A	G	C	A	A	G	T	C	A	T	A	C	C	C	G	T	C	T	G	T	C	C	A	G	G	T	A	A	T	T	C	T	A	T	T	G	T	T	T	A	C	C	T	C	A
Rh10 CC	T	G	G	G	G	G	A	C	T	C	C	C	T	G	G	G	C	A	G	T	T	T	T	C	G	A	C	T	T	C	T	A	A	A	A	G	C	A	A	G	T	C	A	T	A	C	C	C	G	T	C	T	G	T	C	C	A	G	G	T	A	A	T	T	C	T	A	T	T	G	T	T	T	A	C	C	T	C	A
Rh11 CS	T	G	G	G	G	G	A	C	T	C	C	C	T	G	G	G	C	A	G	T	T	T	T	C	G	A	C	T	T	C	T	A	A	A	A	G	C	A	A	G	T	C	A	T	A	C	C	C	G	T	C	T	G	T	C	C	A	G	G	T	A	A	T	T	C	T	A	T	T	G	T	T	T	A	C	C	T	C	A
Rh12 CS	T	G	G	G	G	G	A	C	T	C	C	C	T	G	G	G	C	A	G	T	T	T	T	C	G	A	C	T	T	C	T	A	A	A	A	G	C	A	A	G	T	C	A	T	A	C	C	C	G	T	C	T	G	T	C	C	A	G	G	T	A	A	T	T	C	T	A	T	T	G	T	T	T	A	C	C	T	C	A
Rh13 CC	T	G	G	G	G	G	A	C	T	C	C	C	T	G	G	G	C	A	G	T	T	T	T	C	G	A	C	T	T	C	T	A	A	A	A	G	C	A	A	G	T	C	A	T	A	C	C	C	G	T	C	T	G	T	C	C	A	G	G	T	A	A	T	T	C	T	A	T	T	G	T	T	T	A	C	C	T	C	A
Rh14 SS	T	G	G	G	G	G	A	C	T	C	C	C	T	G	G	G	C	A	G	T	T	T	T	C	G	A	C	T	T	C	T	A	A	A	A	G	C	A	A	G	T	C	A	T	A	C	C	C	G	T	C	T	G	T	C	C	A	G	G	T	A	A	T	T	C	T	A	T	T	G	T	T	T	A	C	C	T	C	A
Rh15 SS	T	G	G	G	G	G	A	C	T	C	C	C	T	G	G	G	C	A	G	T	T	T	T	C	G	A	C	T	T	C	T	A	A	A	A	G	C	A	A	G	T	C	A	T	A	C	C	C	G	T	C	T	G	T	C	C	A	G	G	T	A	A	T	T	C	T	A	T	T	G	T	T	T	A	C	C	T	C	A
Rh16 CC	T	G	G	G	G	G	A	C	T	C	C	C	T	G	G	G	C	A	G	T	T	T	T	C	G	A	C	T	T	C	T	A	A	A	A	G	C	A	A	G	T	C	A	T	A	C	C	C	G	T	C	T	G	T	C	C	A	G	G	T	A	A	T	T	C	T	A	T	T	G	T	T	T	A	C	C	T	C	A
Rh17 CS	T	G	G	G	G	G	A	C	T	C	C	C	T	G	G	G	C	A	G	T	T	T	T	C	G	A	C	T	T	C	T	A	A	A	A	G	C	A	A	G	T	C	A	T	A	C	C	C	G	T	C	T	G	T	C	C	A	G	G	T	A	A	T	T	C	T	A	T	T	G	T	T	T	A	C	C	T	C	A
Rh18 CS	T	G	G	G	G	G	A	C	T	C	C	C	T	G	G	G	C	A	G	T	T	T	T	C	G	A	C	T	T	C	T	A	A	A	A	G	C	A	A	G	T	C	A	T	A	C	C	C	G	T	C	T	G	T	C	C	A	G	G	T	A	A	T	T	C	T	A	T	T	G	T	T	T	A	C	C	T	C	A
Rh19 CC	T	G	G	G	G	G	A	C	T	C	C	C	T	G	G	G	C	A	G	T	T	T	T	C	G	A	C	T	T	C	T	A	A	A	A	G	C	A	A	G	T	C	A	T	A	C	C	C	G	T	C	T	G	T	C	C	A	G	G	T	A	A	T	T	C	T	A	T	T	G	T	T	T	A	C	C	T	C	A
Rh21 CC	T	G	G	G	G	G	A	C	T	C	C	C	T	G	G	G	C	A	G	T	T	T	T	C	G	A	C	T	T	C	T	A	A	A	A	G	C	A	A	G	T	C	A	T	A	C	C	C	G	T	C	T	G	T	C	C	A	G	G	T	A	A	T	T	C	T	A	T	T	G	T	T	T	A	C	C	T	C	A
Rh23 CS	T	G	G	G	G	G	A	C	T	C	C	C	T	G	G	G	C	A	G	T	T	T	T	C	G	A	C	T	T	C	T	A	A	A	A	G	C	A	A	G	T	C	A	T	A	C	C	C	G	T	C	T	G	T	C	C	A	G	G	T	A	A	T	T	C	T	A	T	T	G	T	T	T	A	C	C	T	C	A
Rh24 CS	T	G	G	G	G	G	A	C	T	C	C	C	T	G	G	G	C	A	G	T	T	T	T	C	G	A	C	T	T	C	T	A	A	A	A	G	C	A	A	G	T	C	A	T	A	C	C	C	G	T	C	T	G	T	C	C	A	G	G	T	A	A	T	T	C	T	A	T	T	G	T	T	T	A	C	C	T	C	A
Rh1-1 SS	T	G	G	G	G	G	A	C	T	C	C	C	T	G	G	G	C	A	G	T	T	T	T	C	G	A	C	T	T	C	T	A	A	A	A	G	C	A	A	G	T	C	A	T	A	C	C	C	G	T	C	T	G	T	C	C	A	G	G	T	A	A	T	T	C	T	A	T	T	G	T	T	T	A	C	C	T	C	A
Rh1-2 CS	T	G	G	G	G	G	A	C	T	C	C	C	T	G	G	G	C	A	G	T	T	T	T	C	G	A	C	T	T	C	T	A	A	A	A	G	C	A	A	G	T	C	A	T	A	C	C	C	G	T	C	T	G	T	C	C	A	G	G	T	A	A	T	T	C	T	A	T	T	G	T	T	T	A	C	C	T	C	A
Rh1-3 CC	T	G	G	G	G	G	A	C	T	C	C	C	T	G	G	G	C	A	G	T	T	T	T	C	G	A	C	T	T	C	T	A	A	A	A	G	C	A	A	G	T	C	A	T	A	C	C	C	G	T	C	T	G	T	C	C	A	G	G	T	A	A	T	T	C	T	A	T	T	G	T	T	T	A	C	C	T	C	A
Rh1-6 CC	T	G	G	G	G	G	A	C	T	C	C	C	T	G	G	G	C	A	G	T	T	T	T	C	G	A	C	T	T	C	T	A	A	A	A	G	C	A	A	G	T	C	A	T	A	C	C	C	G	T	C	T	G	T	C	C	A	G	G	T	A	A	T	T	C	T	A	T	T	G	T	T	T	A	C	C	T	C	A
Rh1-7 CC	T	G	G	G	G	G	A	C	T	C	C	C	T	G	G	G	C	A	G	T	T	T	T	C	G	A	C	T	T	C	T	A	A	A	A	G	C	A	A	G	T	C	A	T	A	C	C	C	G	T	C	T	G	T	C	C	A	G	G	T	A	A	T	T	C	T	A	T	T	G	T	T	T	A	C	C	T	C	A
Rh1-8 CS	T	G	G	G	G	G	A	C																																																																							

	81	90	100	110	120	130	140	150	159																																																																					
Rh1-35 CS	T	G	G	G	G	A	C	T	C	C	C	T	G	G	G	C	A	G	T	T	T	T	C	G	A	C	T	T	C	T	A	A	A	A	G	C	A	A	G	T	C	A	T	A	C	C	C	G	T	C	T	G	T	C	C	A	G	G	T	A	A	T	T	C	T	A	T	T	G	T	T	T	A	C	C	T	S	A
Rh1-36 CS	T	G	G	G	G	A	C	T	C	C	C	T	G	G	G	C	A	G	T	T	T	T	C	G	A	C	T	T	C	T	A	A	A	A	G	C	A	A	G	T	C	A	T	A	C	C	C	G	T	C	T	G	T	C	C	A	G	G	T	A	A	T	T	C	T	A	T	T	G	T	T	T	A	C	C	T	S	A
Rh1-37 CS	T	G	G	G	G	A	C	T	C	C	C	T	G	G	G	C	A	G	T	T	T	T	C	G	A	C	T	T	C	T	A	A	A	A	G	C	A	A	G	T	C	A	T	A	C	C	C	G	T	C	T	G	T	C	C	A	G	G	T	A	A	T	T	C	T	A	T	T	G	T	T	T	A	C	C	T	S	A
Rh1-38 CS	T	G	G	G	G	A	C	T	C	C	C	T	G	G	G	C	A	G	T	T	T	T	C	G	A	C	T	T	C	T	A	A	A	A	G	C	A	A	G	T	C	A	T	A	C	C	C	G	T	C	T	G	T	C	C	A	G	G	T	A	A	T	T	C	T	A	T	T	G	T	T	T	A	C	C	T	S	A
Rh1-39 SS	T	G	G	G	G	A	C	T	C	C	C	T	G	G	G	C	A	G	T	T	T	T	C	G	A	C	T	T	C	T	A	A	A	A	G	C	A	A	G	T	C	A	T	A	C	C	C	G	T	C	T	G	T	C	C	A	G	G	T	A	A	T	T	C	T	A	T	T	G	T	T	T	A	C	C	T	G	A
Rh1-40 CC	T	G	G	G	G	A	C	T	C	C	C	T	G	G	G	C	A	G	T	T	T	T	C	G	A	C	T	T	C	T	A	A	A	A	G	C	A	A	G	T	C	A	T	A	C	C	C	G	T	C	T	G	T	C	C	A	G	G	T	A	A	T	T	C	T	A	T	T	G	T	T	T	A	C	C	T	C	A
Rh1-41 CC	T	G	G	G	G	A	C	T	C	C	C	T	G	G	G	C	A	G	T	T	T	T	C	G	A	C	T	T	C	T	A	A	A	A	G	C	A	A	G	T	C	A	T	A	C	C	C	G	T	C	T	G	T	C	C	A	G	G	T	A	A	T	T	C	T	A	T	T	G	T	T	T	A	C	C	T	C	A
Rh1-43 SS	T	G	G	G	G	A	C	T	C	C	C	T	G	G	G	C	A	G	T	T	T	T	C	G	A	C	T	T	C	T	A	A	A	A	G	C	A	A	G	T	C	A	T	A	C	C	C	G	T	C	T	G	T	C	C	A	G	G	T	A	A	T	T	C	T	A	T	T	G	T	T	T	A	C	C	T	G	A
Rh1-44 CC	T	G	G	G	G	A	C	T	C	C	C	T	G	G	G	C	A	G	T	T	T	T	C	G	A	C	T	T	C	T	A	A	A	A	G	C	A	A	G	T	C	A	T	A	C	C	C	G	T	C	T	G	T	C	C	A	G	G	T	A	A	T	T	C	T	A	T	T	G	T	T	T	A	C	C	T	C	A
Rh1-47 CS	T	G	G	G	G	A	C	T	C	C	C	T	G	G	G	C	A	G	T	T	T	T	C	G	A	C	T	T	C	T	A	A	A	A	G	C	A	A	G	T	C	A	T	A	C	C	C	G	T	C	T	G	T	C	C	A	G	G	T	A	A	T	T	C	T	A	T	T	G	T	T	T	A	C	C	T	S	A
Rh1-49 CS	T	G	G	G	G	A	C	T	C	C	C	T	G	G	G	C	A	G	T	T	T	T	C	G	A	C	T	T	C	T	A	A	A	A	G	C	A	A	G	T	C	A	T	A	C	C	C	G	T	C	T	G	T	C	C	A	G	G	T	A	A	T	T	C	T	A	T	T	G	T	T	T	A	C	C	T	S	A
Rh1-52 CS	T	G	G	G	G	A	C	T	C	C	C	T	G	G	G	C	A	G	T	T	T	T	C	G	A	C	T	T	C	T	A	A	A	A	G	C	A	A	G	T	C	A	T	A	C	C	C	G	T	C	T	G	T	C	C	A	G	G	T	A	A	T	T	C	T	A	T	T	G	T	T	T	A	C	C	T	S	A
Rh1-53 CS	T	G	G	G	G	A	C	T	C	C	C	T	G	G	G	C	A	G	T	T	T	T	C	G	A	C	T	T	C	T	A	A	A	A	G	C	A	A	G	T	C	A	T	A	C	C	C	G	T	C	T	G	T	C	C	A	G	G	T	A	A	T	T	C	T	A	T	T	G	T	T	T	A	C	C	T	S	A
Rh1-54 CC	T	G	G	G	G	A	C	T	C	C	C	T	G	G	G	C	A	G	T	T	T	T	C	G	A	C	T	T	C	T	A	A	A	A	G	C	A	A	G	T	C	A	T	A	C	C	C	G	T	C	T	G	T	C	C	A	G	G	T	A	A	T	T	C	T	A	T	T	G	T	T	T	A	C	C	T	C	A
Rh1-58 CS	T	G	G	G	G	A	C	T	C	C	C	T	G	G	G	C	A	G	T	T	T	T	C	G	A	C	T	T	C	T	A	A	A	A	G	C	A	A	G	T	C	A	T	A	C	C	C	G	T	C	T	G	T	C	C	A	G	G	T	A	A	T	T	C	T	A	T	T	G	T	T	T	A	C	C	T	S	A
Rh1-60 SS	T	G	G	G	G	A	C	T	C	C	C	T	G	G	G	C	A	G	T	T	T	T	C	G	A	C	T	T	C	T	A	A	A	A	G	C	A	A	G	T	C	A	T	A	C	C	C	G	T	C	T	G	T	C	C	A	G	G	T	A	A	T	T	C	T	A	T	T	G	T	T	T	A	C	C	T	G	A
Bar1a 3 CC	T	G	G	G	G	A	C	T	C	C	C	T	G	G	G	C	A	G	T	T	T	T	C	G	A	C	T	T	C	T	A	A	A	A	G	C	A	A	G	T	C	A	T	A	C	C	C	G	T	C	T	G	T	C	C	A	G	G	T	A	A	T	T	C	T	A	T	T	G	T	T	T	A	C	C	T	S	A
Bar1a 4 CC	T	G	G	G	G	A	C	T	C	C	C	T	G	G	G	C	A	G	T	T	T	T	C	G	A	C	T	T	C	T	A	A	A	A	G	C	A	A	G	T	C	A	T	A	C	C	C	G	T	C	T	G	T	C	C	A	G	G	T	A	A	T	T	C	T	A	T	T	G	T	T	T	A	C	C	T	G	A
Bar1a 5 CC	T	G	G	G	G	A	C	T	C	C	C	T	G	G	G	C	A	G	T	T	T	T	C	G	A	C	T	T	C	T	A	A	A	A	G	C	A	A	G	T	C	A	T	A	C	C	C	G	T	C	T	G	T	C	C	A	G	G	T	A	A	T	T	C	T	A	T	T	G	T	T	T	A	C	C	T	S	A
Bar1a 6 CC	T	G	G	G	G	A	C	T	C	C	C	T	G	G	G	C	A	G	T	T	T	T	C	G	A	C	T	T	C	T	A	A	A	A	G	C	A	A	G	T	C	A	T	A	C	C	C	G	T	C	T	G	T	C	C	A	G	G	T	A	A	T	T	C	T	A	T	T	G	T	T	T	A	C	C	T	C	A
Bar1a 8 CC	T	G	G	G	G	A	C	T	C	C	C	T	G	G	G	C	A	G	T	T	T	T	C	G	A	C	T	T	C	T	A	A	A	A	G	C	A	A	G	T	C	A	T	A	C	C	C	G	T	C	T	G	T	C	C	A	G	G	T	A	A	T	T	C	T	A	T	T	G	T	T	T	A	C	C	T	G	A
Bar1a 9 CC	T	G	G	G	G	A	C	T	C	C	C	T	G	G	G	C	A	G	T	T	T	T	C	G	A	C	T	T	C	T	A	A	A	A	G	C	A	A	G	T	C	A	T	A	C	C	C	G	T	C	T	G	T	C	C	A	G	G	T	A	A	T	T	C	T	A	T	T	G	T	T	T	A	C	C	T	S	A
Bar1a 10 CC	T	G	G	G	G	A	C	T	C	C	C	T	G	G	G	C	A	G	T	T	T	T	C	G	A	C	T	T	C	T	A	A	A	A	G	C	A	A	G	T	C	A	T	A	C	C	C	G	T	C	T	G	T	C	C	A	G	G	T	A	A	T	T	C	T	A	T	T	G	T	T	T	A	C	C	T	C	A
Bar1a 11 CC	T	G	G	G	G	A	C	T	C	C	C	T	G	G	G	C	A	G	T	T	T	T	C	G	A	C	T	T	C	T	A	A	A	A	G	C	A	A	G	T	C	A	T	A	C	C	C	G	T	C	T	G	T	C	C	A	G	G	T	A	A	T	T	C	T	A	T	T	G	T	T	T	A	C	C	T	S	A
Bar1a 13 CC	T	G	G	G	G	A	C	T	C	C	C	T	G	G	G	C	A	G	T	T	T	T	C	G	A	C	T	T	C	T	A	A	A	A	G	C	A	A	G	T	C	A	T	A	C	C	C	G	T	C	T	G	T	C	C	A	G	G	T	A	A	T	T	C	T	A	T	T	G	T	T	T	A	C	C	T	S	A
Bar1a 14 CC	T	G	G	G	G	A	C	T	C	C	C	T	G	G	G	C	A	G	T	T	T	T	C	G	A	C	T	T	C	T	A	A	A	A	G	C	A	A	G	T	C	A	T	A	C	C	C	G	T	C	T	G	T	C	C	A	G	G	T	A	A	T	T	C	T	A	T	T	G	T	T	T	A	C	C	T	C	A
Bar1a 15 CC	T	G	G	G	G	A	C	T	C	C	C	T	G	G	G	C	A	G	T	T	T	T	C	G	A	C	T	T	C	T	A	A	A	A	G	C	A	A	G	T	C	A	T	A	C	C	C	G	T	C	T	G	T	C	C	A	G	G	T	A	A	T	T	C	T	A	T	T	G	T	T	T	A	C	C	T	S	A
Bar1a 16 CC	T	G	G	G	G	A	C	T	C	C	C	T	G	G	G	C	A	G	T	T	T	T	C	G	A	C	T	T	C	T	A	A	A	A	G	C	A	A	G	T	C	A	T	A	C	C	C	G	T	C	T	G	T	C	C	A	G	G	T	A	A	T	T	C	T	A	T	T	G	T	T	T	A	C	C	T	S	A
Bar1a 17 CC	T	G	G	G	G	A	C	T	C	C	C	T	G	G	G	C	A	G	T	T	T	T	C	G	A	C	T	T	C	T	A	A	A	A	G	C	A	A	G	T	C	A	T	A	C	C	C	G	T	C	T	G	T	C	C	A	G	G	T	A	A	T	T	C	T	A	T	T	G	T	T	T	A	C	C	T	C	A
Bar1a 18 CC	T	G	G	G	G	A	C	T	C	C	C	T	G	G	G	C	A	G	T	T	T	T	C	G	A	C	T	T	C	T	A	A	A	A	G	C	A	A	G	T	C	A	T	A	C	C	C	G	T	C	T	G	T	C	C	A	G	G	T	A	A	T	T	C	T	A	T	T	G	T	T	T	A	C	C	T	S	A
Bar1a 19 CC	T	G	G	G	G	A	C	T	C	C	C	T	G	G	G	C	A	G	T	T	T	T	C	G	A	C	T																																																			

	81	90	100	110	120	130	140	150	159																																																																					
Coos 3 CC	T	G	G	G	G	A	C	T	C	C	C	T	G	G	G	C	A	G	T	T	T	T	C	G	A	C	T	T	C	T	A	A	A	A	G	C	A	A	G	T	C	A	T	A	C	C	C	G	T	C	T	G	T	C	C	A	G	G	T	A	A	T	T	C	T	A	T	T	G	T	T	T	A	C	C	T	C	A
CABC1 CC	T	G	G	G	G	A	C	T	C	C	C	T	G	G	G	C	A	G	T	T	T	T	C	G	A	C	T	T	C	T	A	A	A	A	G	C	A	A	G	T	C	A	T	A	C	C	C	G	T	C	T	G	T	C	C	A	G	G	T	A	A	T	T	C	T	A	T	T	G	T	T	T	A	C	C	T	C	A
CABC2 CS	T	G	G	G	G	A	C	T	C	C	C	T	G	G	G	C	A	G	T	T	T	T	C	G	A	C	T	T	C	T	A	A	A	A	G	C	A	A	G	T	C	A	T	A	C	C	C	G	T	C	T	G	T	C	C	A	G	G	T	A	A	T	T	C	T	A	T	T	G	T	T	T	A	C	C	T	S	A
CABC3 CC	T	G	G	G	G	A	C	T	C	C	C	T	G	G	G	C	A	G	T	T	T	T	C	G	A	C	T	T	C	T	A	A	A	A	G	C	A	A	G	T	C	A	T	A	C	C	C	G	T	C	T	G	T	C	C	A	G	G	T	A	A	T	T	C	T	A	T	T	G	T	T	T	A	C	C	T	C	A
CABC4 CC	T	G	G	G	G	A	C	T	C	C	C	T	G	G	G	C	A	G	T	T	T	T	C	G	A	C	T	T	C	T	A	A	A	A	G	C	A	A	G	T	C	A	T	A	C	C	C	G	T	C	T	G	T	C	C	A	G	G	T	A	A	T	T	C	T	A	T	T	G	T	T	T	A	C	C	T	C	A
CABC5 CS	T	G	G	G	G	A	C	T	C	C	C	T	G	G	G	C	A	G	T	T	T	T	C	G	A	C	T	T	C	T	A	A	A	A	G	C	A	A	G	T	C	A	T	A	C	C	C	G	T	C	T	G	T	C	C	A	G	G	T	A	A	T	T	C	T	A	T	T	G	T	T	T	A	C	C	T	S	A
CASM1 CS	T	G	G	G	G	A	C	T	C	C	C	T	G	G	G	C	A	G	T	T	T	T	C	G	A	C	T	T	C	T	A	A	A	A	G	C	A	A	G	T	C	A	T	A	C	C	C	G	T	C	T	G	T	C	C	A	G	G	T	A	A	T	T	C	T	A	T	T	G	T	T	T	A	C	C	T	S	A
CASM3 CS	T	G	G	G	G	A	C	T	C	C	C	T	G	G	G	C	A	G	T	T	T	T	C	G	A	C	T	T	C	T	A	A	A	A	G	C	A	A	G	T	C	A	T	A	C	C	C	G	T	C	T	G	T	C	C	A	G	G	T	A	A	T	T	C	T	A	T	T	G	T	T	T	A	C	C	T	S	A
CASM9 CC	T	G	G	G	G	A	C	T	C	C	C	T	G	G	G	C	A	G	T	T	T	T	C	G	A	C	T	T	C	T	A	A	A	A	G	C	A	A	G	T	C	A	T	A	C	C	C	G	T	C	T	G	T	C	C	A	G	G	T	A	A	T	T	C	T	A	T	T	G	T	T	T	A	C	C	T	C	A
CASM11 CC	T	G	G	G	G	A	C	T	C	C	C	T	G	G	G	C	A	G	T	T	T	T	C	G	A	C	T	T	C	T	A	A	A	A	G	C	A	A	G	T	C	A	T	A	C	C	C	G	T	C	T	G	T	C	C	A	G	G	T	A	A	T	T	C	T	A	T	T	G	T	T	T	A	C	C	T	C	A
CASM13 CS	T	G	G	G	G	A	C	T	C	C	C	T	G	G	G	C	A	G	T	T	T	T	C	G	A	C	T	T	C	T	A	A	A	A	G	C	A	A	G	T	C	A	T	A	C	C	C	G	T	C	T	G	T	C	C	A	G	G	T	A	A	T	T	C	T	A	T	T	G	T	T	T	A	C	C	T	S	A
CB5 CC	T	G	G	G	G	A	C	T	C	C	C	T	G	G	G	C	A	G	T	T	T	T	C	G	A	C	T	T	C	T	A	A	A	A	G	C	A	A	G	T	C	A	T	A	C	C	C	G	T	C	T	G	T	C	C	A	G	G	T	A	A	T	T	C	T	A	T	T	G	T	T	T	A	C	C	T	C	A
CD2 6 CC	T	G	G	G	G	A	C	T	C	C	C	T	G	G	G	C	A	G	T	T	T	T	C	G	A	C	T	T	C	T	A	A	A	A	G	C	A	A	G	T	C	A	T	A	C	C	C	G	T	C	T	G	T	C	C	A	G	G	T	A	A	T	T	C	T	A	T	T	G	T	T	T	A	C	C	T	C	A
CD 2 CC	T	G	G	G	G	A	C	T	C	C	C	T	G	G	G	C	A	G	T	T	T	T	C	G	A	C	T	T	C	T	A	A	A	A	G	C	A	A	G	T	C	A	T	A	C	C	C	G	T	C	T	G	T	C	C	A	G	G	T	A	A	T	T	C	T	A	T	T	G	T	T	T	A	C	C	T	C	A
UK Gil 1 CL CC	T	G	G	G	G	A	C	T	C	C	C	T	G	G	G	C	A	G	T	T	T	T	C	G	A	C	T	T	C	T	A	A	A	A	G	C	A	A	G	T	C	A	T	A	C	C	C	G	T	C	T	G	T	C	C	A	G	G	T	A	A	T	T	C	T	A	T	T	G	T	T	T	A	C	C	T	C	A
UK Gil 3 CC	T	G	G	G	G	A	C	T	C	C	C	T	G	G	G	C	A	G	T	T	T	T	C	G	A	C	T	T	C	T	A	A	A	A	G	C	A	A	G	T	C	A	T	A	C	C	C	G	T	C	T	G	T	C	C	A	G	G	T	A	A	T	T	C	T	A	T	T	G	T	T	T	A	C	C	T	C	A
UK Gil 4 CC	T	G	G	G	G	A	C	T	C	C	C	T	G	G	G	C	A	G	T	T	T	T	C	G	A	C	T	T	C	T	A	A	A	A	G	C	A	A	G	T	C	A	T	A	C	C	C	G	T	C	T	G	T	C	C	A	G	G	T	A	A	T	T	C	T	A	T	T	G	T	T	T	A	C	C	T	C	A
UK Gil 5 CC	T	G	G	G	G	A	C	T	C	C	C	T	G	G	G	C	A	G	T	T	T	T	C	G	A	C	T	T	C	T	A	A	A	A	G	C	A	A	G	T	C	A	T	A	C	C	C	G	T	C	T	G	T	C	C	A	G	G	T	A	A	T	T	C	T	A	T	T	G	T	T	T	A	C	C	T	C	A
UK Gil 6 CC	T	G	G	G	G	A	C	T	C	C	C	T	G	G	G	C	A	G	T	T	T	T	C	G	A	C	T	T	C	T	A	A	A	A	G	C	A	A	G	T	C	A	T	A	C	C	C	G	T	C	T	G	T	C	C	A	G	G	T	A	A	T	T	C	T	A	T	T	G	T	T	T	A	C	C	T	C	A
UK Gil 7 CC	T	G	G	G	G	A	C	T	C	C	C	T	G	G	G	C	A	G	T	T	T	T	C	G	A	C	T	T	C	T	A	A	A	A	G	C	A	A	G	T	C	A	T	A	C	C	C	G	T	C	T	G	T	C	C	A	G	G	T	A	A	T	T	C	T	A	T	T	G	T	T	T	A	C	C	T	C	A
UK Gil 8 CC	T	G	G	G	G	A	C	T	C	C	C	T	G	G	G	C	A	G	T	T	T	T	C	G	A	C	T	T	C	T	A	A	A	A	G	C	A	A	G	T	C	A	T	A	C	C	C	G	T	C	T	G	T	C	C	A	G	G	T	A	A	T	T	C	T	A	T	T	G	T	T	T	A	C	C	T	C	A
Gil 10 CC	T	G	G	G	G	A	C	T	C	C	C	T	G	G	G	C	A	G	T	T	T	T	C	G	A	C	T	T	C	T	A	A	A	A	G	C	A	A	G	T	C	A	T	A	C	C	C	G	T	C	T	G	T	C	C	A	G	G	T	A	A	T	T	C	T	A	T	T	G	T	T	T	A	C	C	T	C	A
Gil 11 CC	T	G	G	G	G	A	C	T	C	C	C	T	G	G	G	C	A	G	T	T	T	T	C	G	A	C	T	T	C	T	A	A	A	A	G	C	A	A	G	T	C	A	T	A	C	C	C	G	T	C	T	G	T	C	C	A	G	G	T	A	A	T	T	C	T	A	T	T	G	T	T	T	A	C	C	T	C	A
UK NrSalt 1 CC	T	G	G	G	G	A	C	T	C	C	C	T	G	G	G	C	A	G	T	T	T	T	C	G	A	C	T	T	C	T	A	A	A	A	G	C	A	A	G	T	C	A	T	A	C	C	C	G	T	C	T	G	T	C	C	A	G	G	T	A	A	T	T	C	T	A	T	T	G	T	T	T	A	C	C	T	C	A
UK NrSalt 2 CC	T	G	G	G	G	A	C	T	C	C	C	T	G	G	G	C	A	G	T	T	T	T	C	G	A	C	T	T	C	T	A	A	A	A	G	C	A	A	G	T	C	A	T	A	C	C	C	G	T	C	T	G	T	C	C	A	G	G	T	A	A	T	T	C	T	A	T	T	G	T	T	T	A	C	C	T	C	A
UK NrSalt 3 CC	T	G	G	G	G	A	C	T	C	C	C	T	G	G	G	C	A	G	T	T	T	T	C	G	A	C	T	T	C	T	A	A	A	A	G	C	A	A	G	T	C	A	T	A	C	C	C	G	T	C	T	G	T	C	C	A	G	G	T	A	A	T	T	C	T	A	T	T	G	T	T	T	A	C	C	T	C	A
UK NrSalt 4 CC	T	G	G	G	G	A	C	T	C	C	C	T	G	G	G	C	A	G	T	T	T	T	C	G	A	C	T	T	C	T	A	A	A	A	G	C	A	A	G	T	C	A	T	A	C	C	C	G	T	C	T	G	T	C	C	A	G	G	T	A	A	T	T	C	T	A	T	T	G	T	T	T	A	C	C	T	C	A
UK Nr Salt 5 CC	T	G	G	G	G	A	C	T	C	C	C	T	G	G	G	C	A	G	T	T	T	T	C	G	A	C	T	T	C	T	A	A	A	A	G	C	A	A	G	T	C	A	T	A	C	C	C	G	T	C	T	G	T	C	C	A	G	G	T	A	A	T	T	C	T	A	T	T	G	T	T	T	A	C	C	T	C	A
UK Nr Salt 6 CC	T	G	G	G	G	A	C	T	C	C	C	T	G	G	G	C	A	G	T	T	T	T	C	G	A	C	T	T	C	T	A	A	A	A	G	C	A	A	G	T	C	A	T	A	C	C	C	G	T	C	T	G	T	C	C	A	G	G	T	A	A	T	T	C	T	A	T	T	G	T	T	T	A	C	C	T	C	A
UK Nr Salt 7 CC	T	G	G	G	G	A	C	T	C	C	C	T	G	G	G	C	A	G	T	T	T	T	C	G	A	C	T	T	C	T	A	A	A	A	G	C	A	A	G	T	C	A	T	A	C	C	C	G	T	C	T	G	T	C	C	A	G	G	T	A	A	T	T	C	T	A	T	T	G	T	T	T	A	C	C	T	C	A
UK Nr Salt 8 CC	T	G	G	G	G	A	C	T	C	C	C	T	G	G	G	C	A	G	T	T	T	T	C	G	A	C	T	T	C	T	A	A	A	A	G	C	A																																									