

Table S4. The 300 murine proviruses of groups G1-G3.

The most intact proviruses were selected from the *Mus musculus* (C57Black/6J) genome assembly mm8 portion of a RetroBank prototype by selecting for a RetroTector score of 2000 (essentially complete proviruses, with no or a few frameshifts or stops) and genus gammaretrovirus (estimated by RetroTector). 306 proviruses fulfilled these criteria. Of them, six were duplicates. RetroTector may produce duplicates when alternative proviral interpretations occur. The lowest scoring of each duplicate was removed, giving 300 proviruses. Three major branches were evident in all phylogenies. They were named G1, G2 and G3 (for gamma 1, gamma 2 and gamma 3). Some of their properties are listed below. Although some exogenous gammaretroviruses cluster with the groups (2-3 rat endogenous proviruses cluster with G2 and many ecotropic exogenous MLVs cluster with G3), only endogenous proviruses from assembly mm8 are shown below. The envelopes of a few G1 and G2 proviruses cluster differently from the rest of those proviruses, probably due to recombination. The subject cannot be treated extensively here.

The columns are:

1. Group: The allocation of groups G1-G3, based on *gag* and *pol* Clustal alignments and phylogenetic trees based on them.
2. Jern subgroups. These are from Jern et al, Plos Genetics 2007. We used BLAT at the UCSC site to search the most highly similar sequence in the mm8 assembly. Not all G3 proviruses could be given a Jern subgroup assignment, for unknown reasons. Several of the concatenated *gag/pro/pol/env* sequences were not sufficiently different from each other, and yielded ambiguous calls. This uncertainty is reflected in the column.
3. THIS, the G3 subgroup inferred from the clustering in *gag*, *pol* and *env* based trees in this paper.
4. Chromosome in mm8.
5. Chainstart, the start position of the provirus. The 5' end is always given as the start.
6. Chainend, the end position of the provirus. The 3'end is always given as the end.
7. Sense, which can be the primary (P) or secondary (S) strand. The primary strand is the one used for numbering the chromosome in question.
8. Score, the score calculated by RetroTector©. It is a rough representation of proviral completeness.
9. Genus, in this case always C (gammaretrovirus-like).
10. GagOrf, the sum of frameshifts and stops in the *gag* gene. -1 means that the *gag* gene could not be interpreted.
11. ProOrf, annotated in the same way as GagOrf.
12. PolOrf, annotated in the same way as GagOrf.
13. EnvOrf, annotated in the same way as GagOrf.
14. Estimated PBS. Upper case means “good fit to a PBS sequence”, lower case means “moderate fit to a PBS sequence”. All PBS entries were checked against the tRNADB in Leipzig.
15. The PBS sequence.
16. LTRdivergence, the % divergence between the two LTRs, a rough measure of time since integration.

| GROUP | JERN | THIS | CHR | CHAINSTART | CHAINEND | STRAND | SCORE | GENUS | GAGORF | PROORF | POLORF | ENVORF | PBS | PBSSEQ | LTRDIV, % |
|-------|------|------|-----|------------|-----------|----------|--------|--------|--------|--------|--------|---------------------|--------------------|--------|-----------|
| G1 | | | | 12 | 7167658 | 7177389 | P | 2286 C | 0 | 1 | 2 | 1 | gtgttgcattggccggaa | 7,097 | |
| G1 | | | | 19 | 13997386 | 13990627 | S | 2025 C | 2 | 0 | 9 | -1 G | tgttgtcattggccggaa | 0,879 | |
| G1 | | | 5 | 76673772 | 76682636 | P | 2226 C | 2 | 0 | 2 | 1 G | tgttgtcattggccggaa | 0,701 | | |
| G1 | | 5R | | 2907883 | 2899019 | S | 2222 C | 2 | 0 | 2 | 1 G | tgttgtcattggccggaa | 0,701 | | |
| G1 | | 2 | | 84699377 | 84708075 | P | 2410 C | 0 | 0 | 1 | 2 G | tgttgtcattggccggaa | 0,255 | | |
| G1 | | 6 | | 10346803 | 10355554 | P | 2533 C | 0 | 0 | 1 | 0 G | tgttgtcattggccggaa | 0,816 | | |
| G1 | | 5 | | 6489438 | 6498284 | P | 2503 C | 0 | 0 | 2 | 2 G | tgttgtcattggccggaa | 0,704 | | |
| G1 | | 8 | | 75759184 | 75767847 | P | 2254 C | 0 | 0 | 1 | 2 G | tgttgtcattggccggaa | 0,514 | | |
| G1 | | 2 | | 68347295 | 68356977 | P | 2541 C | 0 | 0 | 1 | 1 G | tgttgtcattggccggaa | 0 | | |
| G1 | | 18 | | 42601670 | 42610283 | P | 2372 C | 2 | 0 | 2 | 3 G | tgttgtcattggccggaa | 0,255 | | |
| G1 | | 11 | | 10344713 | 10335993 | S | 2403 C | 0 | 1 | 0 | 0 G | tgttgtcattggccggaa | 1,106 | | |
| G1 | | 16 | | 19516342 | 19507962 | S | 2262 C | 0 | 0 | 2 | 3 G | tgttgtcattggccggaa | 0,664 | | |
| G1 | | 2 | | 181848717 | 181857413 | P | 2572 C | 0 | 0 | 0 | 0 G | tgttgtcattggccggaa | 0,228 | | |
| G1 | | 8 | | 20181859 | 20171871 | S | 2440 C | 0 | 0 | 7 | 1 | tctgtgggtttatgttcca | 0,141 | | |
| G1 | | 7 | | 56788381 | 56798130 | P | 2389 C | 0 | 0 | 2 | 2 G | tgttgtcattggccggaa | 0,186 | | |
| G1 | X | | | 69002389 | 68993727 | S | 2551 C | 0 | 0 | 0 | 0 G | tgttgtcattggccggaa | 0,463 | | |
| G1 | | 17 | | 32782428 | 32791114 | P | 2363 C | 2 | 0 | 6 | 2 G | tgttgtcattggccggaa | 0,847 | | |
| G1 | | 4 | | 40848866 | 40840270 | S | 2446 C | 0 | 0 | 1 | 0 G | tgttgtcattggccggaa | 0,3 | | |
| G1 | | 5 | | 58614499 | 58605862 | S | 2511 C | 2 | 0 | 1 | 0 G | tgttgtcattggccggaa | 0,221 | | |
| G1 | | 6 | | 129778341 | 129769867 | S | 2480 C | 0 | 0 | 1 | 1 G | tgttgtcattggccggaa | 0 | | |
| G1 | | 9 | | 6804768 | 6813543 | P | 2496 C | 1 | 0 | 0 | 1 P | tgggggctgtccggat | 1,444 | | |
| G1 | | 9 | | 6804768 | 6813543 | P | 2483 C | 1 | 0 | 0 | 1 P | tgggggctgtccggat | 1,444 | | |
| G1 | | 18 | | 6355349 | 6346758 | S | 2256 C | 0 | 1 | 2 | 0 P | tgggggctgtccggat | 1,282 | | |
| G1 | | 6 | | 9818958 | 9810806 | S | 2151 C | 1 | 0 | 2 | 0 s | tgggggctgtccggat | 0,362 | | |
| G1 | | 11 | | 121136108 | 121127122 | S | 2337 C | 1 | 2 | 0 | 0 P | tgggggctgtccggat | 1,773 | | |
| G1 | | 13 | | 68825110 | 68836983 | P | 2358 C | 1 | 0 | 2 | 0 | gccttatgtcgatgt | 6,356 | | |
| G1 | | 7 | | 16826508 | 16817957 | S | 2416 C | 1 | 0 | 1 | 0 P | tgggggctgtccggat | 0,348 | | |
| G1 | YR | | | 13247086 | 13255724 | P | 2327 C | 1 | 0 | 3 | 2 P | tgggggctgtccggat | 1,677 | | |
| G1 | YR | | | 38319142 | 3840414 | P | 2328 C | 1 | 0 | 3 | 2 P | tgggggctgtccggat | 3,859 | | |
| G1 | | 19 | | 29751613 | 29760358 | P | 2455 C | 2 | 0 | 2 | 1 P | tgggggctgtccggat | 0,899 | | |
| G1 | | 4 | | 31158729 | 31167425 | P | 2335 C | 0 | 0 | 1 | 0 s | tgggggctgtccggat | 0,906 | | |
| G1 | X | | | 36617602 | 36608866 | S | 2245 C | 1 | 0 | 2 | 1 s | tgggggctgtccggat | 1,576 | | |
| G1 | | 6 | | 13410749 | 13402057 | S | 2225 C | 1 | 0 | 1 | 0 s | tgggggctgtccggat | 0,907 | | |
| G1 | | 9 | | 19707318 | 19715654 | P | 2295 C | 0 | 0 | 2 | 1 P | tgggggctgtccggat | 1,026 | | |
| G1 | | 17 | | 18094247 | 18085592 | S | 2169 C | 0 | 0 | 0 | 1 s | tgggggctgtccggat | 0,375 | | |
| G1 | | 15 | | 32809701 | 32824366 | P | 2510 C | 0 | 0 | 3 | 1 | tggaaaatatgtgagact | 4,112 | | |
| G1 | X | | | 28089696 | 28081149 | S | 2529 C | 0 | 1 | 2 | 3 P | tgggggctgtccggat | 1,966 | | |
| G1 | X | | | 29493445 | 29484899 | S | 2458 C | 0 | 1 | 2 | 4 P | tgggggctgtccggat | 1,966 | | |
| G1 | X | | | 31327254 | 31335800 | P | 2438 C | 0 | 1 | 2 | 4 P | tgggggctgtccggat | 1,966 | | |
| G1 | X | | | 26939449 | 26930902 | S | 2499 C | 0 | 1 | 2 | 3 P | tgggggctgtccggat | 1,966 | | |
| G1 | X | | | 26583153 | 26574602 | S | 2502 C | 0 | 1 | 2 | 3 P | tgggggctgtccggat | 2,247 | | |
| G1 | X | | | 27741119 | 27732569 | S | 2510 C | 0 | 1 | 2 | 3 P | tgggggctgtccggat | 2,247 | | |
| G1 | X | | | 28668814 | 28677360 | P | 2535 C | 0 | 1 | 2 | 5 P | tgggggctgtccggat | 2,528 | | |
| G1 | | 12 | | 20963947 | 20955602 | S | 2266 C | 1 | 0 | 4 | 0 P | tgggggctgtccggat | 0,602 | | |
| G1 | | 3 | | 96458134 | 96449462 | S | 2321 C | 1 | 0 | 1 | 0 s | tgggggctgtccggat | 2,511 | | |
| G1 | | 5 | | 144029052 | 144037580 | P | 2498 C | 1 | 0 | 1 | 0 G | tgttgtcattggccggaa | 0 | | |
| G1 | | 6 | | 104192593 | 104184002 | S | 2431 C | 3 | 1 | 2 | 0 G | tgttgtcattggccggaa | 0,322 | | |
| G1 | | 18 | | 86334894 | 86326313 | S | 2275 C | 0 | 0 | 1 | 0 G | tgttgtcattggccggaa | 0,643 | | |
| G1 | | 13 | | 3180552 | 3171969 | S | 2400 C | 2 | 0 | 0 | 1 G | tgttgtcattggccggaa | 0 | | |
| G1 | | 4 | | 142945865 | 142954456 | P | 2399 C | 0 | 0 | 1 | 0 G | tgttgtcattggccggaa | 0,643 | | |
| G1 | | 1 | | 87307992 | 87299408 | S | 2471 C | 1 | 1 | 0 | 0 G | tgttgtcattggccggaa | 0,643 | | |
| G1 | | 7 | | 42172126 | 42161853 | S | 2451 C | 2 | 0 | 3 | 0 G | tgttgtcattggccggaa | 0,322 | | |
| G1 | | 9 | | 4855377 | 4846794 | S | 2480 C | 1 | 0 | 0 | 1 G | tgttgtcattggccggaa | 0,965 | | |
| G1 | X | | | 4473889 | 4465301 | S | 2519 C | 1 | 0 | 1 | 1 G | tgttgtcattggccggaa | 1,608 | | |
| G1 | | 7 | | 10085860 | 10077270 | S | 2245 C | 1 | 0 | 1 | 0 G | tgttgtcattggccggaa | 0,322 | | |
| G1 | | 12 | | 69841080 | 69832546 | S | 2492 C | 0 | 0 | 0 | 0 G | tgttgtcattggccggaa | 0 | | |
| G1 | | 7 | | 20421984 | 20413392 | S | 2420 C | 0 | 0 | 0 | 0 G | tgttgtcattggccggaa | 0,958 | | |
| G1 | | 4 | | 39044302 | 39052894 | P | 2576 C | 1 | 0 | 2 | 0 G | tgttgtcattggccggaa | 0,319 | | |
| G1 | | 9 | | 17870138 | 17878692 | P | 2390 C | 1 | 0 | 1 | 1 g | tgttgtcattggccgaac | 0 | | |
| G1 | | 5R | | 20614443 | 2070048 | P | 2098 C | 1 | 1 | 3 | 1 G | tgttgtcattggccggaa | 0 | | |
| G1 | 5R | | | 353440 | 344834 | S | 2084 C | 1 | 1 | 3 | 1 G | tgttgtcattggccggaa | 0 | | |
| G1 | | 5 | | 94676896 | 94668303 | S | 2218 C | 1 | 0 | 1 | 1 G | tgttgtcattggccggaa | 0 | | |
| G1 | | 6 | | 19594284 | 19602882 | P | 2520 C | 1 | 0 | 2 | 0 G | tgttgtcattggccggaa | 0 | | |
| G1 | | 8 | | 116462276 | 116446820 | S | 2500 C | 0 | 0 | 2 | 0 G | tgttgtcattggccggaa | 0,321 | | |
| G1 | | 12 | | 24421810 | 24430369 | P | 2476 C | 0 | 0 | 1 | 1 G | tgttgtcattggccggaa | 0,656 | | |
| G1 | | 7 | | 106162675 | 106171227 | P | 2568 C | 0 | 0 | 2 | 3 G | tgttgtcattggccggaa | 0,656 | | |
| G1 | X | | | 85272635 | 85264080 | S | 2458 C | 0 | 0 | 2 | 0 G | tgttgtcattggccggaa | 0,328 | | |
| G1 | | 8 | | 28769833 | 28778387 | P | 2443 C | 1 | 0 | 0 | 1 G | tgttgtcattggccggaa | 0 | | |
| G1 | | 13 | | 20666097 | 20657536 | S | 2518 C | 0 | 0 | 1 | 1 G | tgttgtcattggccggaa | 0,656 | | |
| G1 | | 12 | | 23063728 | 23055192 | S | 2552 C | 2 | 0 | 0 | 0 G | tgttgtcattggccggaa | 0,328 | | |
| G1 | | 15 | | 49007539 | 48999023 | S | 2505 C | 3 | 0 | 1 | 0 G | tgttgtcattggccggaa | 0,656 | | |
| G1 | | 1 | | 197059344 | 197050771 | S | 2547 C | 0 | 0 | 0 | 0 G | tgttgtcattggccggaa | 0 | | |
| G1 | | 7 | | 19466915 | 19475429 | P | 2431 C | 0 | 0 | 2 | 0 G | tgttgtcattggccggaa | 0,639 | | |
| G1 | | 7 | | 22012805 | 22021319 | P | 2444 C | 0 | 0 | 2 | 0 G | tgttgtcattggccggaa | 0,639 | | |
| G1 | X | | | 22753149 | 22744591 | S | 2567 C | 1 | 0 | 1 | 2 G | tgttgtcattggccggaa | 0 | | |
| G1 | | 11 | | 75181662 | 75173122 | S | 2279 C | 1 | 0 | 4 | 4 G | tgttgtcattggccggaa | 1,286 | | |
| G1 | | 6 | | 9246408 | 9254960 | P | 2574 C | 1 | 0 | 3 | 2 G | tgttgtcattggccggaa | 0,643 | | |
| G1 | | 10 | | 3947641 | 3939089 | S | 2476 C | 0 | 0 | 1 | 0 G | tgttgtcattggccggaa | 0,321 | | |
| G1 | | 7 | | 27736610 | 27728060 | S | 2361 C | 1 | 0 | 3 | 0 G | tgttgtcattggccggaa | 0 | | |
| G1 | | 12 | | 23639279 | 23647879 | P | 2450 C | 1 | 0 | 0 | 2 G | tgttgtcattggccggaa | 0,637 | | |
| G1 | | 12 | | 24232686 | 24224140 | S | 2523 C | 0 | 0 | 0 | 2 G | tgttgtcattggccggaa | 0,637 | | |
| G1 | | 5 | | 76663911 | 76672491 | P | 2130 C | 2 | 1 | 2 | 0 P | tgggggctgtccggat | 0 | | |
| G1 | | 5R | | 29177475 | 2909164 | S | 2096 C | 2 | 1 | 3 | 0 P | tgggggctgtccggat | 0 | | |
| G1 | 5R | | | 2051415 | 2059994 | P | 2056 C | 3 | 1 | 2 | 0 P | tgggggctgtccggat | 0,324 | | |
| G1 | 5R | | | 363468 | 354889 | S | 2109 C | 3 | 1 | 2 | 0 P | tgggggctgtccggat | 0,324 | | |
| G1 | | 5 | | 95293762 | 95302351 | P | 2134 C | 1 | 1 | 2 | 1 P | tgggggctgtccggat | 7,541 | | |
| G1 | | SR | | 2313 | 14545 | S | 2172 C | 1 | 1 | 3 | 1 P | tgggggctgtccggat | 7,541 | | |
| G1 | SR | | | 698499 | 707087 | P | 2160 C | 1 | 1 | 3 | 1 P | tgggggctgtccggat | 7,541 | | |
| G1 | SR | | | 94686917 | 94678345 | S | 2338 C | 2 | 0 | 2 | 2 P | tgggggctgtccggat | 0,647 | | |
| G1 | SR | | | 1005041 | 1013599 | P | 2166 C | 1 | 1 | 0 | 1 P | tgggggctgtccggat | 7,018 | | |
| G1 | | 5 | | 95611246 | 95619819 | P | 2244 C | 2 | 1 | 2 | 1 P | tgggggctgtccggat | 8,525 | | |

| | | | | | | | | | | |
|----|----|-----------|-------------|--------|---|---|---|------|---------------------|--------|
| G1 | 7 | 32382271 | 32373741 S | 2428 C | 3 | 1 | 1 | 1 P | tgggggctgtccggat | 1,544 |
| G1 | 7 | 32609167 | 32600637 S | 2405 C | 3 | 1 | 1 | 1 P | tgggggctgtccggat | 1,544 |
| G1 | 17 | 58525679 | 58534201 P | 2277 C | 1 | 0 | 4 | 1 P | tgggggctgtccggat | 0,386 |
| G1 | 6 | 59821337 | 59812831 S | 2342 C | 2 | 0 | 1 | 1 P | tgggggctatccggat | 0,772 |
| G1 | 13 | 68413662 | 68422165 P | 2416 C | 2 | 0 | 3 | 0 P | tgggggctgtccggat | 0,388 |
| G1 | X | 25720491 | 25711975 S | 2091 C | 0 | 0 | 4 | 1 | tgggtcgccggctgtccc | 1,931 |
| G1 | 4 | 143392767 | 143401269 P | 2195 C | 1 | 0 | 4 | 2 P | tgggggctgtccggat | 1,556 |
| G1 | 10 | 47444316 | 47435762 S | 2180 C | 0 | 0 | 1 | 1 | tgttgtcggtttttt | 1,163 |
| G1 | X | 122485908 | 122494467 P | 2422 C | 0 | 0 | 0 | 0 P | tgggggctgtccggat | 0,388 |
| G1 | 10 | 4266211 | 4257656 S | 2384 C | 1 | 0 | 1 | 1 P | tgggggctgtccggaa | 0,974 |
| G1 | 3 | 3249466 | 3241071 S | 2366 C | 0 | 0 | 0 | 0 P | tgggggctgtccggat | 0 |
| G1 | 6 | 10870226 | 10878802 P | 2075 C | 1 | 0 | 3 | 0 P | tgggggctgtccggat | 1,623 |
| G1 | 7 | 31649885 | 31641310 S | 2253 C | 1 | 0 | 1 | 0 P | tgggggctgtccggat | 0,977 |
| G1 | 11 | 47262836 | 47278499 P | 2429 C | 1 | 0 | 2 | 0 P | tgggggctgtccggat | 4,531 |
| G1 | 19 | 9616180 | 9624756 P | 2432 C | 0 | 0 | 1 | 1 P | tgggggctgtccggat | 0 |
| G1 | 10 | 55324861 | 55316286 S | 2409 C | 0 | 0 | 2 | 4 P | tgggggctgtccggat | 0,325 |
| G1 | 13 | 112849620 | 112858177 P | 2465 C | 3 | 0 | 0 | 0 P | tgggggctgtccggat | 0,325 |
| G1 | 7 | 42296817 | 42288241 S | 2197 C | 1 | 0 | 1 | 1 P | tgggggctgtccggat | 0,325 |
| G1 | 16 | 3107315 | 3098757 S | 2157 C | 2 | 0 | 1 | 1 P | tgggggctgtccggat | 0,984 |
| G1 | 16 | 3275036 | 3283649 P | 2215 C | 1 | 0 | 1 | 3 P | tgggggctgtccggat | 0,984 |
| G1 | 14 | 52643653 | 52652217 P | 2319 C | 0 | 0 | 0 | 1 P | tgggggctgtccaggat | 0,326 |
| G1 | 2 | 41034625 | 41043182 P | 2320 C | 0 | 0 | 1 | 0 P | tgggggctgtccggat | 0 |
| G1 | 5 | 9854282 | 9863388 P | 2350 C | 1 | 0 | 2 | 1 P | tgggggctgtccggat | 2,303 |
| G1 | 19 | 40015556 | 40024100 P | 2356 C | 0 | 0 | 3 | 2 P | tgggggctgtccggat | 0,656 |
| G1 | 18 | 74384552 | 74393074 P | 2441 C | 0 | 0 | 2 | 2 P | tgggggctgtccggat | 0,325 |
| G1 | 4 | 90367080 | 90375191 P | 2459 C | 3 | 0 | 2 | 0 P | tgggggctgtccggat | 0,647 |
| G1 | 12 | 19930599 | 19922104 S | 2025 C | 0 | 0 | 4 | 0 P | tgggggctgtccggat | 1,361 |
| G1 | 1 | 100117419 | 100125800 P | 2325 C | 0 | 0 | 2 | 2 P | tgggggctgtccaggat | 0,733 |
| G1 | 3 | 16432285 | 16423863 S | 2375 C | 0 | 0 | 0 | 1 P | tgggggctgtccggat | 0,352 |
| G1 | 9 | 6703246 | 6694842 S | 2361 C | 0 | 0 | 3 | 0 P | tgggggctgtccggat | 0 |
| G1 | YR | 14435559 | 14427157 S | 2156 C | 0 | 0 | 1 | 0 P | tgggtcgctgtccggat | 2,606 |
| G1 | 17 | 20451942 | 20460372 P | 2302 C | 2 | 0 | 2 | 2 P | tgggggctgtccggat | 1,316 |
| G1 | 3 | 67513064 | 67504620 S | 2300 C | 4 | 0 | 0 | 0 P | tgggggctgtccggat | 0 |
| G1 | 8 | 76141904 | 76150343 P | 2348 C | 0 | 0 | 0 | 0 P | tgggggctgtccggat | 0,658 |
| G1 | 1 | 142780526 | 142788957 P | 2475 C | 1 | 0 | 2 | 0 P | tgggggctgtccggat | 0,329 |
| G1 | 9 | 25914164 | 25906750 S | 2354 C | 0 | 0 | 3 | 1 P | tgggggctgtccggat | 0 |
| G1 | 14 | 8217491 | 8209046 S | 2380 C | 1 | 0 | 2 | 1 P | tgggggctgtccggat | 0,326 |
| G1 | 2 | 55605859 | 55597411 S | 2430 C | 1 | 0 | 2 | 0 P | tgggggctgtccggat | 0,977 |
| G1 | X | 45216113 | 45207676 S | 2421 C | 2 | 0 | 3 | 0 P | tgggggctgtccggat | 0,329 |
| G1 | X | 51971219 | 51979669 P | 2230 C | 2 | 1 | 3 | 2 P | tgggggcttcggat | 0,326 |
| G1 | 9 | 39471717 | 3939274 S | 2431 C | 0 | 0 | 1 | 0 P | tgggggctgtccggat | 0,658 |
| G1 | 2 | 138262497 | 138253902 S | 2403 C | 0 | 0 | 1 | 1 P | tgggggctgtccggat | 0,327 |
| G1 | 13 | 35021135 | 35012682 S | 2294 C | 0 | 0 | 3 | 2 P | tgggggctgtccggat | 0 |
| G1 | 3 | 11123338 | 11131784 P | 2314 C | 1 | 0 | 1 | 0 P | tgggggctgtccgaat | 0,329 |
| G1 | 7 | 85330013 | 85338444 P | 2396 C | 1 | 0 | 1 | 0 P | tgggggctgtccggat | 0,987 |
| G1 | 7 | 20210541 | 20202039 S | 2155 C | 2 | 0 | 1 | 0 P | tggggactgtccggat | 1,948 |
| G1 | 7 | 22620924 | 22629418 P | 2003 C | 2 | 0 | 2 | 1 P | tggggactgtccggat | 1,299 |
| G1 | 4 | 123354415 | 123345896 S | 2334 C | 0 | 0 | 2 | 0 G | tgttgtcgatggccggaa | 0,327 |
| G1 | 13 | 50732587 | 50724092 S | 2452 C | 1 | 0 | 3 | 1 P | tgggggctgtccggat | 0,649 |
| G1 | 8 | 4959420 | 4967904 P | 2074 C | 1 | 0 | 2 | 1 P | tgggggctgtccaggat | 0 |
| G1 | X | 161151110 | 161159604 P | 2346 C | 0 | 0 | 0 | 0 P | tgggggctgtccggat | 0,974 |
| G1 | 3 | 10857898 | 10866412 P | 2158 C | 0 | 0 | 2 | 1 P | tgggggctgtccggat | 0,325 |
| G1 | 1 | 27674279 | 27682528 P | 2288 C | 1 | 0 | 3 | 1 P | tgggggctgtccggat | 0,833 |
| G1 | 10 | 78270986 | 78262676 S | 2308 C | 0 | 0 | 1 | 0 P | tgggggctgtccaggat | 0,588 |
| G1 | 2 | 25549391 | 25541036 S | 2052 C | 1 | 0 | 6 | 1 P | tgggggctgtccggat | 0 |
| G1 | 7 | 20210495 | 20202042 S | 2128 C | 2 | 0 | 1 | 0 P | tggggactgtccggat | 2,317 |
| G1 | 2 | 67930798 | 67939218 P | 2267 C | 2 | 0 | 4 | 0 P | tgggggctgtccggat | 0 |
| G1 | 12 | 44540601 | 44549025 P | 2271 C | 2 | 0 | 1 | 1 P | tgggggctgtccggat | 0 |
| G1 | 1 | 119978260 | 119969841 S | 2348 C | 0 | 1 | 1 | 1 P | tgggggctgtccggat | 0,775 |
| G1 | 19 | 13109265 | 13117705 P | 2405 C | 1 | 0 | 3 | 0 P | tgggggctgtccggat | 0 |
| G1 | 13 | 78107530 | 78090989 S | 2275 C | 1 | 0 | 0 | 0 P | tgggggctgtccggat | 0,388 |
| G1 | 15 | 15004671 | 14996247 S | 2321 C | 1 | 0 | 3 | 2 P | tgggggctgtccggat | 0,4 |
| G1 | 16 | 61201576 | 61193150 S | 2398 C | 0 | 0 | 1 | 0 P | tgggggctgtccggat | 1,261 |
| G1 | 12 | 77663152 | 77654702 S | 2400 C | 0 | 0 | 2 | 1 P | tgggggctgtccggat | 0 |
| G1 | 4 | 143285616 | 143294099 P | 2223 C | 0 | 0 | 2 | 2 P | tgggggctgtccggat | 0 |
| G1 | 7 | 62535812 | 62550466 P | 2471 C | 3 | 0 | 2 | 1 P | tgggggctgtccggat | 0,388 |
| G1 | 3 | 27214964 | 27206590 S | 2480 C | 0 | 0 | 1 | 0 G | tgttgtcgatggccggaa | 0 |
| G1 | 14 | 37020689 | 37029018 P | 2481 C | 2 | 0 | 1 | 1 G | tgttgtcgatggccggaa | 0 |
| G1 | 5 | 10627682 | 10635871 P | 2477 C | 0 | 0 | 2 | 0 G | tgttgtcgatggccggaa | 0 |
| G1 | X | 116205149 | 116196774 S | 2363 C | 0 | 0 | 2 | 0 G | tgttgtcgatggccggaa | 0,98 |
| G1 | 1 | 147966500 | 147958131 S | 2505 C | 0 | 1 | 0 | 0 G | tgttgtcgatggccggaa | 0,99 |
| G1 | X | 75140573 | 75148991 P | 2573 C | 2 | 0 | 2 | 2 G | tgttgtcgatggccggaa | 0 |
| G1 | X | 110244634 | 110253003 P | 2372 C | 0 | 0 | 4 | 0 G | tgttgtcgatggccggaa | 0 |
| G1 | 1 | 85024403 | 85016029 S | 2443 C | 1 | 1 | 0 | 2 G | tgttgtcgatggccggaa | 0 |
| G1 | 9 | 7407328 | 7415688 P | 2543 C | 1 | 0 | 1 | 2 G | tgttgtcgatggccggaa | 0 |
| G1 | X | 3017764 | 3009388 S | 2183 C | 1 | 0 | 3 | 1 G | tgttgtcgatggccggaa | 1 |
| G1 | X | 3107092 | 3115469 P | 2505 C | 2 | 0 | 1 | 1 G | tgttgtcgatggccggaa | 3 |
| G1 | 7 | 103168275 | 103175762 P | 2419 C | 0 | 0 | 1 | 3 G | tgttgtcgatggccggaa | 0,565 |
| G1 | 9 | 7407606 | 7414943 P | 2253 C | 1 | 0 | 1 | -1 G | tgttgtcgatggccggaa | |
| G1 | X | 3107370 | 3114722 P | 2210 C | 2 | 0 | 1 | 1 G | tgttgtcgatggccggaa | |
| G1 | X | 117175129 | 117167525 S | 2177 C | 0 | 0 | 0 | 1 | | 24,176 |
| G1 | 13 | 86668875 | 86656476 S | 2163 C | 2 | 0 | 2 | 2 P | tggaggctgtccaggat | |
| G1 | 7 | 13722716 | 13714420 S | 2371 C | 2 | 0 | 2 | 0 P | tgggggctgtccggat | 1,869 |
| G1 | X | 73147008 | 73155387 P | 2584 C | 0 | 0 | 3 | 0 G | tgttgtcgatggccggaa | 0 |
| G1 | 13 | 68917752 | 68909459 S | 2618 C | 1 | 0 | 0 | 0 G | tgttgtcgatggccggaa | 0 |
| G1 | 4 | 143351516 | 143359835 P | 2530 C | 0 | 0 | 0 | 0 G | tgttgtcgatggccggaa | 0 |
| G1 | 14 | 39042987 | 39034705 S | 2287 C | 1 | 0 | 2 | 0 G | tgttgtcgatggccaggaa | 2 |
| G1 | 9 | 90737869 | 90729581 S | 2531 C | 0 | 0 | 2 | 0 G | tgttgtcgatggccggaa | 2,941 |
| G1 | 12 | 52231624 | 52240129 P | 2467 C | 1 | 0 | 1 | 0 G | tgttgtcgatggccggaa | 5,755 |
| G1 | 13 | 68562177 | 68570978 P | 2285 C | 0 | 0 | 2 | 1 G | tgttgtcgatggccggaa | 13,158 |
| G1 | 12 | 88605018 | 88613305 P | 2422 C | 1 | 0 | 2 | 1 P | tgggggctgtccggat | 0 |
| G1 | 7 | 23024544 | 23016319 S | 2465 C | 0 | 0 | 1 | 1 P | tgggggctgtccggat | 3,846 |

| | | | | | | | | | | | | | |
|----|--------|-----------|-------------|------------|-------------|-------------|--------|------|---------------------|---------------------|---------------------|---------------------|---|
| G1 | 9 | 12101539 | 12091225 S | 2049 C | 2 | 0 | 8 | 1 P | tgggggctgtccggat | 2,305 | | | |
| G1 | 2 | 27317207 | 27325386 P | 2123 C | 4 | 1 | 5 | -1 G | tgtgcattggccggaa | 6,759 | | | |
| G1 | 5 | 105161106 | 105169841 P | 2105 C | 6 | 0 | 6 | 1 G | tgtgcattggccggaa | 1,893 | | | |
| G1 | 7 | 33735121 | 33743847 P | 2134 C | 3 | 0 | 6 | 6 P | tggggctgtccgtat | 0,787 | | | |
| G1 | 11 | 9790554 | 9782416 S | 2051 C | 5 | 1 | 12 | 2 G | tgtgcattggccggaa | 7,113 | | | |
| G2 | 4 | 34538284 | 34530059 S | 2471 C | 2 | 0 | 1 | 1 Q | tggagggtccacccgagat | 0,418 | | | |
| G2 | 7 | 52202011 | 52193788 S | 2486 C | 1 | 0 | 0 | 1 Q | tggagggtccacccgagat | 0 | | | |
| G2 | 16 | 55879954 | 55888171 P | 2312 C | 1 | 0 | 2 | 1 T | tggaggcccacgcgagat | 0,837 | | | |
| G2 | 13 | 104833012 | 104841220 P | 2476 C | 0 | 0 | 2 | 0 Q | tggaggttcacccgagat | 0,418 | | | |
| G2 | 15 | 19950298 | 19942117 S | 2420 C | 3 | 0 | 2 | 2 Q | tggaggttcacccgagat | 0,971 | | | |
| G2 | 10 | 86106187 | 86114386 P | 2487 C | 1 | 0 | 1 | 0 Q | tggaggttcacccgagat | 0,431 | | | |
| G2 | 13 | 68140880 | 68149001 P | 2546 C | 1 | 0 | 2 | 1 | | 0 | | | |
| G2 | 14 | 112984891 | 112976666 S | 2339 C | 0 | 0 | 1 | 1 Q | tggaggttcacccgagat | 0,837 | | | |
| G2 | 3 | 16984867 | 16992988 P | 2328 C | 0 | 1 | 2 | 7 Q | tggaggttcacccgagat | 2,174 | | | |
| G2 | 6 | 132935927 | 132927704 S | 2459 C | 0 | 0 | 0 | 2 Q | tggaggttcacccgagat | 1,674 | | | |
| G2 | 14 | 52521890 | 52529974 P | 2403 C | 2 | 0 | 0 | 0 T | tggaggcccacgcgagat | 0 | | | |
| G2 | 4 | 94746451 | 94754671 P | 2317 C | 0 | 1 | 2 | 1 Q | tggaggttcacccgagat | 0,837 | | | |
| G2 | 9 | 25612912 | 25604689 S | 2455 C | 0 | 0 | 1 | 0 Q | tggaggttcacccgagat | 0 | | | |
| G2 | 4 | 74538467 | 74546694 P | 2372 C | 1 | 0 | 3 | 2 Q | tggaggttcacccgagat | 0 | | | |
| G2 | X | 72524699 | 72532822 P | 2024 C | 1 | 0 | 2 | 0 | | 0,725 | | | |
| G2 | 4 | 51892727 | 51900951 P | 2510 C | 1 | 0 | 0 | 0 Q | tggaggttcacccgagat | 0 | | | |
| G2 | 8 | 124718935 | 124727354 P | 2282 C | 0 | 0 | 0 | 2 Q | tggaggttcacccgagat | 0 | | | |
| G2 | 1 | 83868369 | 83860146 S | 2516 C | 0 | 0 | 0 | 0 q | tggaggttcacactgagat | 0 | | | |
| G2 | 10 | 17014683 | 17007273 S | 2500 C | 0 | 0 | 0 | 3 Q | tggaggttcacccgagat | 0,418 | | | |
| G2 | 10 | 26624616 | 26616401 S | 2529 C | 1 | 0 | 0 | 0 Q | tggaggttcacccgagat | 0,418 | | | |
| G2 | 12 | 44831985 | 44823762 S | 2401 C | 0 | 0 | 2 | 2 T | tggaggccccacgcgagat | 0 | | | |
| G2 | 15 | 83021703 | 83029926 P | 2458 C | 1 | 0 | 1 | 0 Q | tggaggttcacccgagat | 0 | | | |
| G2 | 2 | 94602089 | 94610210 P | 2541 C | 0 | 0 | 1 | 2 | | 0 | | | |
| G2 | 4 | 53968674 | 53960264 S | 2427 C | 0 | 0 | 1 | 0 Q | tggaggttcacccgagat | 0,418 | | | |
| G2 | 3 | 55674149 | 55665938 S | 2471 C | 1 | 0 | 1 | 1 Q | tggaggttcacccgagat | 0 | | | |
| G2 | 6 | 7669279 | 7677490 P | 2514 C | 2 | 0 | 0 | 1 Q | tggaggttcacccgagat | 0,392 | | | |
| G2 | 11 | 9350834 | 9342609 S | 2470 C | 0 | 0 | 0 | 0 Q | tggaggttcacccgagat | 1,25 | | | |
| G2 | 1 | 52257434 | 52265662 P | 2403 C | 3 | 0 | 4 | 2 Q | tggaggttcacccgagat | 0 | | | |
| G2 | X | 41488765 | 41480534 S | 2070 C | 1 | 1 | 7 | 0 Q | tggaggttcacccgagat | 1,255 | | | |
| G2 | 1 | 58585489 | 58595457 P | 2220 C | 0 | 1 | 2 | 15 T | tggaggccccacgcgagat | 2,51 | | | |
| G2 | 13 | 118289273 | 118284583 S | 2010 C | 1 | 2 | 4 | 3 q | tggaggttcaccaagat | 1,897 | | | |
| G2 | 12 | 41784059 | 41775843 S | 2347 C | 2 | 0 | 1 | 1 Q | tggaggttcacccgagat | 1,255 | | | |
| G2 | Y | 1872546 | 1864565 S | 2035 C | 2 | 0 | 2 | 2 | tggaggccccacgcgagat | 0 | | | |
| G2 | 18 | 24683321 | 24675169 S | 2500 C | 0 | 1 | 1 | 0 Q | tggaggttcacccgagat | 0,837 | | | |
| G2 | 10 | 25585205 | 25593428 P | 2495 C | 0 | 0 | 0 | 0 q | tggaggttccacgcgagat | 0 | | | |
| G2 | X | 156453233 | 156445044 S | 2050 C | 4 | 0 | 11 | 1 Q | tggaggttcacccgagat | 1,478 | | | |
| G2 | 7 | 12068859 | 12077015 P | 2095 C | 6 | 0 | 5 | 0 q | tggaggttccactgagat | 1,258 | | | |
| G2 | 4 | 3291272 | 3282926 S | 2240 C | 5 | 0 | 12 | 2 | tgggggtttccactat | 12,979 | | | |
| G2 | 5 | 82708425 | 82700203 S | 2436 C | 0 | 0 | 1 | 0 Q | tggaggttccacccgagat | 0 | | | |
| G2 | 6 | 58755056 | 58746837 S | 2495 C | 0 | 0 | 1 | 1 Q | tggaggttcacccgagat | 0 | | | |
| G2 | 17 | 34368311 | 34360087 S | 2296 C | 3 | 0 | 2 | 0 T | tggaggccccacgcgagat | 2,092 | | | |
| G2 | 8 | 26596457 | 26588328 S | 2023 C | 4 | 1 | 4 | 5 | | 5,926 | | | |
| G2 | 2 | 20307110 | 20298885 S | 2516 C | 0 | 0 | 0 | 1 Q | tggaggttccacccgagat | 0 | | | |
| G2 | Y | 2041229 | 2049312 P | 2026 C | 4 | 1 | 8 | 3 q | tggaggttcaccaagat | 7,113 | | | |
| G2 | 4 | 39571122 | 39579646 P | 2433 C | 0 | 1 | 3 | 1 Q | tggaggttccacccgagat | 1,852 | | | |
| G2 | 12 | 20481297 | 20472878 S | 2293 C | 1 | 0 | 0 | 1 P | tgggggtctgtccggat | 0 | | | |
| G2 | X | 110081585 | 110090064 P | 2496 C | 5 | 0 | 2 | 2 | tgggggtctgtccggat | 1,347 | | | |
| G2 | 12 | 21890390 | 21898565 P | 2002 C | 10 | 1 | 10 | 5 p | tggggctgtccggat | 3,834 | | | |
| G2 | 18 | 18992414 | 19000833 P | 2020 C | 5 | 0 | 9 | 12 p | tggaggctcatccggat | 3,043 | | | |
| G2 | 3 | 94762160 | 94770494 P | 2196 C | 4 | 1 | 6 | 6 G | tgtgcattggcccgagaa | 2,41 | | | |
| G2 | 4 | 11111258 | 11101316 S | 2316 C | 7 | 2 | 6 | 7 | tgggggtctgtccggat | 0,758 | | | |
| G2 | 4 | 145841008 | 145846614 P | 2116 C | 0 | 0 | 2 | -1 P | tgggggtctgtccggat | | | | |
| G2 | 4 | 146511565 | 146505959 S | 2092 C | 0 | 0 | 3 | -1 P | tgggggtctgtccggat | | | | |
| G2 | 4 | 145569452 | 145576406 P | 2153 C | 0 | 0 | 4 | -1 P | tgggggtctgtccggat | | | | |
| G2 | 14 | 41247460 | 41238878 S | 2194 C | 1 | 1 | 2 | 1 | tgggggtctgtccggat | 0,805 | | | |
| G2 | 17 | 94976514 | 94968006 S | 2323 C | 4 | 0 | 1 | 0 | tgggggtctgtccggat | 0,201 | | | |
| G2 | 1 | 102614371 | 102606111 S | 2178 C | 1 | 0 | 8 | 0 | tgggggtctgtccggat | 1,954 | | | |
| G2 | 14 | 40907571 | 40899181 S | 2192 C | 1 | 2 | 1 | 1 | tgggggtctgtccggat | 0 | | | |
| G2 | 1 | 104629573 | 104637967 P | 2102 C | 7 | 0 | 17 | 8 p | agggggtctatccggat | 6,034 | | | |
| G3 | PMV6 | PMV | X | 51501683 | 51510157 P | 3088 C | 0 | 0 | 0 Q | tggaggttccacccgagat | 0 | | |
| G3 | PMV19 | 10? | 1 PMV | 4 | 107652725 | 107643982 S | 2628 C | 0 | 0 | 0 Q | tggaggttccacccgagat | 0,218 | |
| G3 | PMV8 | PMV | 7 | 29324348 | 29332665 P | 2648 C | 0 | 0 | 0 Q | tggaggttccacccgagat | 0 | | |
| G3 | PMV22 | PMV | 11 | 8820301 | 8829280 P | 2837 C | 0 | 0 | 0 Q | tggaggttccacccgagat | 0 | | |
| G3 | PMV5 | 17? | 1 PMV | 5 | 44422900 | 44431622 P | 2950 C | 1 | 0 | 0 Q | tggaggttccacccgagat | 4,11 | |
| G3 | PMV11 | PMV | 5 | 78005469 | 78014272 P | 2945 C | 0 | 0 | 0 Q | tggaggttccacccgagat | 0 | | |
| G3 | PMV1 | PMV | X | 14631230 | 14639971 P | 2977 C | 0 | 0 | 1 Q | tggaggttccacccgagat | 0 | | |
| G3 | PMV16 | PMV | 16 | 93594754 | 93586013 S | 2927 C | 1 | 0 | 0 Q | tggaggttccacccgagat | 0 | | |
| G3 | PMV | 4 | 33126333 | 33118069 S | 2394 C | 1 | 0 | 3 | -1 Q | tggaggttccacccgagat | | | |
| G3 | PMV21 | PMV | 1 | 193634451 | 193643192 P | 2565 C | 0 | 0 | 2 | 1 Q | tggaggttccacccgagat | 0 | |
| G3 | PMV14 | 8? | PMV | 16 | 76026481 | 76017739 S | 2929 C | 0 | 0 | 1 | 1 Q | tggaggttccacccgagat | 0 |
| G3 | PMV13 | PMV | 10 | 41125197 | 41134072 P | 2937 C | 0 | 0 | 0 | 0 Q | tggaggttccacccgagat | 2,196 | |
| G3 | PMV23 | PMV | 4 | 10136892 | 101361089 S | 2594 C | 0 | 0 | 1 | 0 Q | tggaggttccacccgagat | 0,193 | |
| G3 | PMV7 | 2? | PMV | 2 | 57038510 | 57029318 S | 2828 C | 0 | 0 | 0 Q | tggaggttccacccgagat | | |
| G3 | PMV24 | PMV | 1 | 184094018 | 184102759 P | 2564 C | 0 | 0 | 1 | 0 Q | tggaggttccacccgagat | 0 | |
| G3 | PMV12 | PMV | 5 | 144923629 | 144932809 P | 2818 C | 1 | 0 | 0 | 0 Q | tggaggttccacccgagat | | |
| G3 | PMV2 | PMV | 11 | 6658083 | 6649425 S | 2387 C | 0 | 0 | 2 | 0 Q | tggaggttccacccgagat | 0 | |
| G3 | PMV15 | PMV | 7 | 30397623 | 30406364 P | 2584 C | 0 | 0 | 1 | 0 Q | tggaggttccacccgagat | 0 | |
| G3 | PMV | 12 | 55693276 | 55702271 P | 2054 C | 5 | 0 | 6 | -1 | | | | |
| G3 | PMV | 10 | 8241473 | 8234255 S | 2096 C | 5 | 0 | 4 | -1 Q | tggaggttccacccgagat | | | |
| G3 | PMV20 | PMV | 18 | 82828273 | 82836858 P | 2874 C | 1 | 0 | 0 | 0 Q | tggaggttccacccgagat | 0 | |
| G3 | PMV9 | PMV | 13 | 100095189 | 100086448 S | 2936 C | 0 | 0 | 1 | 0 Q | tggaggttccacccgagat | 0 | |
| G3 | PMV | 19 | 38440157 | 38447227 P | 2106 C | 2 | 0 | 2 | -1 Q | tggaggttccacccgagat | 0,429 | | |
| G3 | MPMV14 | MPMV | 11 | 76365341 | 76374029 P | 2940 C | 0 | 0 | 0 | 0 Q | tggaggttccacccgagat | 0 | |
| G3 | MPMV9 | MPMV | 3 | 152260864 | 152269551 P | 2906 C | 0 | 0 | 0 | 0 Q | tggaggttccacccgagat | 0 | |
| G3 | MPMV | 13 | 21819875 | 21827661 P | 2591 C | 2 | 0 | 0 | -1 Q | tggaggttccacccgagat | 0 | | |
| G3 | MPMV3 | MPMV | 2 | 15946952 | 15938265 S | 2937 C | 1 | 0 | 0 | 0 Q | tggaggttccacccgagat | 0 | |
| G3 | MPMV13 | MPMV | 5 | 24741102 | 24749719 P | 2861 C | 0 | 0 | 1 | 0 Q | tggaggttccacccgagat | 0 | |

| | | | | | | | | | | | | | |
|----|-----------|------|-----------|-------------|-------------|--------|----|---|------|--------------------|--------------------|---|--|
| G3 | MPMV | 8 | 126052021 | 126060437 P | 2473 C | 0 | 0 | 2 | 12 | | | | |
| G3 | MPMV | 11 | 60402203 | 60394839 S | 2265 C | 1 | 0 | 2 | -1 Q | tggagggtccaccgagat | 0 | | |
| G3 | MPMV | 10 | 22424071 | 22432738 P | 2929 C | 0 | 0 | 0 | 0 Q | tggagggtccaccgagat | 0 | | |
| G3 | MPMV7 | MPMV | 5 | 43496527 | 43505213 P | 2960 C | 0 | 0 | 0 | 0 Q | tggagggtccaccgagat | 0 | |
| G3 | MPMV | 6 | 73223771 | 73213956 S | 2547 C | 0 | 0 | 2 | -1 | | 43,519 | | |
| G3 | MPMV6 | MPMV | 1 | 133470452 | 133479146 P | 2862 C | 1 | 0 | 0 | 0 Q | tggagggtccaccgagat | 0 | |
| G3 | MPMV | 5 | 110148316 | 110140851 S | 2459 C | 1 | 0 | 2 | -1 Q | tggagggtccaccgagat | 0 | | |
| G3 | MPMV8 | MPMV | 11 | 102900091 | 102908778 P | 2865 C | 1 | 0 | 1 | 0 Q | tggagggtccaccgagat | 0 | |
| G3 | MPMV4 | MPMV | 11 | 86698849 | 86707535 P | 2944 C | 0 | 0 | 0 | 0 Q | tggagggtccaccgagat | 0 | |
| G3 | MPMV1 | MPMV | 7 | 64005512 | 64014552 P | 2947 C | 0 | 0 | 0 | 0 T | tggaggccccagcgagat | 0 | |
| G3 | MPMV11 | MPMV | 12 | 70465730 | 70474228 P | 3000 C | 1 | 0 | 0 | 0 | | 0 | |
| G3 | MPMV | 5 | 122453776 | 122460838 P | 2230 C | 2 | 0 | 3 | -1 Q | tggagggtccaccgagat | 1,357 | | |
| G3 | MPMV5 | MPMV | 10 | 4628507 | 4620011 S | 2728 C | 1 | 0 | 3 | 2 Q | tggagggtccaccgagat | 0 | |
| G3 | XMV18 | XMV | 19 | 60988354 | 60980003 S | 2906 C | 0 | 0 | 0 | 0 Q | tggagggtccaccgagat | 0 | |
| G3 | XMV15 | XMV | 9 | 62237522 | 62245905 P | 2929 C | 0 | 0 | 0 | 0 Q | tggagggtccaccgagat | 0 | |
| G3 | XMV12? | XMV | 8 | 44818939 | 44810580 S | 2936 C | 0 | 0 | 0 | 0 Q | tggagggtccaccgagat | 0 | |
| G3 | XMV19 | XMV | 14 | 53484913 | 53492360 P | 2707 C | 3 | 0 | 0 | 0 Q | tggagggtccaccgagat | 0 | |
| G3 | XMV9 | XMV | 4 | 146062965 | 146071316 P | 3063 C | 0 | 0 | 0 | 0 Q | tggagggtccaccgagat | 0 | |
| G3 | XMV13 | XMV | 13 | 68392368 | 68384024 S | 2914 C | 0 | 0 | 0 | 0 Q | tggagggtccaccgagat | 0 | |
| G3 | XMV16 | XMV | 9 | 41663510 | 41656480 S | 2282 C | 10 | 0 | 0 | 0 | | | |
| G3 | XMV8 | XMV | 4 | 145371516 | 145363002 S | 2924 C | 0 | 0 | 0 | 0 Q | tggagggtccaccgagat | 0 | |
| G3 | XMV41 | XMV | 1 | 173317855 | 173326267 P | 2985 C | 0 | 0 | 2 | 0 P | tgggggctcgtcgggat | 0 | |
| G3 | XMV17? | XMV | 5 | 23221035 | 23212626 S | 3147 C | 0 | 0 | 0 | 0 P | tgggggctcgtcgggat | 0 | |
| G3 | XMV42 43? | XMV | 1 | 172778230 | 172786635 P | 3099 C | 0 | 0 | 0 | 0 P | tgggggctcgtcgggat | 0 | |
| G3 | <eco> | EMV | 8 | 126320498 | 126311126 S | 2984 C | 0 | 0 | 0 | 0 P | tgggggctcgtcgggat | | |