Figure S2. Alignment of predicted amino acid sequences of pink bollworm cadherin from Akola, Maharashtra (AMH) with *PgCad1* *s* (AY198374.1). Stars show amino acids conserved in all of the sequences. The symbols “:” and “.” indicate conservative amino acid substitutions scoring >0.5 and ≤0.5 in the Gonnet PAM 250 matrix, respectively. Red boxes show amino acids corresponding to lepidopteran cadherin Cry1Ac toxin binding regions.

AMH-3\_16 MAGDACILVTVLLTFATSVFGQET-SSRCYYMTDAIPREPKPDDLPDLEWTGGWTNWPLI 59

AMH-2\_5 MAGDACILVTVLLIFAISVFGQETASSRCYYMTDAIPREPKPDDLPDLEWTGGWTDWPLI 60

AMH-3\_13 MAGDACILVTVLLTFATSVFGQETASSRCYYMTDAIPREPKPDDLPDLEWTGGWTDWPLI 60

AMH-2\_1 MAGDACILVTVLLIFAISVFGQETASSRCYYMTDAIPREPKPDDLPDLEWTGGWTDWPLI 60

AMH-1\_7 MAGDACILVTVLLTFATSVFGQETASSRCYYMTDAIPREPKPDDLPDLEWTGGWTDWPLI 60

AMH-3\_1 MAGDACILVTVLLAFATSVFGQETASSRCYYMTDAIPREPKPDDLPDLEWTGGWTDWPLI 60

AMH-2\_4 MAGDACILVTVLLIFAISVFGQETASSRCYYMTDAIPREPKPDDLPDLEWTGGWTDWPLI 60

AMH-1\_2 MAGDACILVTVLLTFATSVFGQETTSSRCYYMTDAIPREPKPDDLPDLEWTGGWTDWPLI 60

AMH-1\_11 MAGDACILVTVLLTFATSVFGQETASSRCYYMTDAIPREPKPDDLPDLEWTGGWTDWPLI 60

AY198374 MAGDACILVTVLLTFATSVFGQETTSSRCYYMTDAIPREPKPDDLPDLEWTGGWTDWPLI 60

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AMH-3\_16 PAEPRDDVCINGWYPQLTSTSLGTIIIHMEEEIEGDVAIAKLNYDGSGTPEIVQPMVIGS 119

AMH-2\_5 PAEPRDDVCINDWYPQLTSTSLGTIIIHMEEEIEGDVAIAKLNYDGSGTPEIVQPMVIGS 120

AMH-3\_13 PAEPRDDVCINGWYPQLTSTSLGTIIIHMEEEIEGDVAIAKLNYDGSGTPEIVQPMVIGS 120

AMH-2\_1 PAEPRDDVCINGWYPQLTSTSLGTIIIHMEEEIEGDVAIAKLYYDGSGTPEIVQPMVIGS 120

AMH-1\_7 PAEPRDDVCINGWYPQLTSTSLGTIIIHMEEEIEGDVAIAKLNYDGSGTPEIVQPMVIGS 120

AMH-3\_1 PAEPRDDVCINGWYPQLTSTSLGTIIIHMEEEIEGDVAIAKLNYDGSGTPEIVQPMVIGS 120

AMH-2\_4 PAEPRDDVCINGWYPQLTSTSLGTIIIHMEEEIEGDVAIAKLNYDGSGTPEIVQPMVIGS 120

AMH-1\_2 PAEPRDDVCINGWYPQLTSTSLGTIIIHMEEEIEGDVAIAKLNYDGSGTPEIVQPMVIGS 120

AMH-1\_11 PAEPRDDVCINGWYPQLTSTSLGTIIIHMEEEIEGDVAIAKLNYDGSGTPEIVQPMVIGS 120

AY198374 PAEPRDDVCINGWYPQLTSTSLGTIIIHMEEEIEGDVAIAKLNYDGSGTPEIVQPMVIGS 120

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AMH-3\_16 FNLLSPEIRNENGAWYLYITNRQDYETPTMRRYTFDVRVPDETRAARVSLSIENIDDNDP 179

AMH-2\_5 FNLLSPGIRNENGAWYLYITNRQDYETPTMRRYTFDVRVPDETRAARVSLSIENIDDNDP 180

AMH-3\_13 FNLLSPEIRNENGAWYLYITNRQDYETPTMRRYTFDVRVPDETRAARVSLSIENIDDNDP 180

AMH-2\_1 FNLLSPEIRNENGAWYLYITNRQDYETPTMRRYTFDVRVPDETRAARVSLSIENIDDNDP 180

AMH-1\_7 FNLLSPEIRNENGAWYLYITNRQDYETPTMRRYTFDVRVPDETRAARVSLSIENIDDNDP 180

AMH-3\_1 FNLLSPEIRNENGAWYLYITNRQDYETPTMRRYTFDVRVPDETRAARVSLSIENIDDNDP 180

AMH-2\_4 FNLLSPEILNENGAWYLYITNRQDYETPTMRRYTFDVRVPDETRAARVSLSIENIDDNDP 180

AMH-1\_2 FNLLSPGIRNENGAWYLYITNRQDYETPTMRRYTFDVRVPDETRAARVSPSIENIDDNDP 180

AMH-1\_11 FNLLSPEIRNENGAWYLYITNRQDYETPTMRRYTFDVRVPDETRAARVSLSIENIDDNDP 180

AY198374 FNLLSPEIRNENGAWYLYITNRQDYETPTMRRYTFDVRVPDETRAARVSLSIENIDDNDP 180

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AMH-3\_16 IVRVLDACQVPELGEPRLTDCVYRVSDEDGRLSIEPMTFRLTSDREDVQIFYVEPAHITG 239

AMH-2\_5 IVRVLDACQVPELGEPRLTDCVYQVSDEDGRLSIEPMTFRLTSDREDVQIFYVEPAHITG 240

AMH-3\_13 IVRVLDACQVPELGEPRLTDCVYQVSDEDGRLSIEPMTFRLTSDREDVQIFYVEPAHITG 240

AMH-2\_1 IVRVLDACQVPELGEPRLTDCVYQVSDEDGRLSIEPMTFRLTSDREDVQIFYVEPAHITG 240

AMH-1\_7 IVRVLDACQVPELGEPRLTDCVYQVSDEDGRLSIEPMTFRLTSDREDVQIFYVEPAHITG 240

AMH-3\_1 IVRVLDACQVPELGEPRLTDCAYQVSDEDGRLSIEPMTFRLTSDREDVQIFYVEPAHITG 240

AMH-2\_4 IVRVLDACQVPELGEPRLTDCVYQVSDEDGRLSIEPMTFRLTSDREDVQIFYVEPAHITG 240

AMH-1\_2 IVRVLDACQVPELGEPRLTDCVYQVSDEDGRLSIEPMTFRLTSDREDVQIFYVEPAHITG 240

AMH-1\_11 IVRVLDACQVPELGEPRLTDCVYQVSDEDGRLSIEPMTFRLTSDREDVQIFYVEPAHITG 240

AY198374 IVRVLDACQVPELGEPRLTDCVYQVSDEDGRLSIEPMTFRLTSDREDVQIFYVEPAHITG 240

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AMH-3\_16 DWFNMQITIGILSALNFESNPLHIFQITALDSWPNNHTVTVMVQVQNVEHRPPRWMEIFA 299

AMH-2\_5 DWFNMQITIGILSALNFESNPLHIFQITALDSWPNNHTVTVMVRVQNVEYRPPRWMEIFA 300

AMH-3\_13 DWFNMQITIGILSALNFESNPLHIFQITALDSWPNNHTVTVMVQVQNVEHRPPRWMEIFA 300

AMH-2\_1 DWFNMQITIGILSALNFESNPPHIFQITALDSWPNYHTVTVMVQVQNVEHRPPRWMEIFA 300

AMH-1\_7 DWFNMQITIGILSALNFESNPLHIFQITALDSWPNNHTVTVMVQVQNVEHRPPRWMEIFA 300

AMH-3\_1 DWFNMQITIGILSALNFESNPLHIFQITALDSWPNNHTVTVMVQVQNVEHRPPRWMEIFA 300

AMH-2\_4 DWFNMQITIGILSALNFESNPLHIFQITALDSWPNNHTVTVMVQVQNVEHRPPRWMEIFA 300

AMH-1\_2 DWFNMQITIGILSALNFESNPLHIFQITALDSWPNNHTVTVMVQVQNVEHRPPRWMEIFA 300

AMH-1\_11 DWFNMQITIGILSALNFESNPLHIFQITALDSWPNNHTVTVMVQVQNVEHRPPRWMEISA 300

AY198374 DWFNMQITIGILSALNFESNPLHIFQITALDSWPNNHTVTVMVQVQNVEHRPPRWMEIFA 300

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AMH-3\_16 VQQFDEMTEQQFQVRAIDGDTGIGKAIHYTLETDEEEDLFFIETLPGGHDGAIFSTAMID 359

AMH-2\_5 VQQFDEMTEQQFQVRAIDGDTGIGKAIHYTLETDEEEDLFFIETLPGGHDGAIFGTAMID 360

AMH-3\_13 VQQFDEMTEQQFQVRAIDGDTGIGKAIHYTLETDEEEDLFFIETLPGGHDGAIFSTAMID 360

AMH-2\_1 VQQFDEMTEQQFQVRAIDGDTGIGKAIHYTLETDEEEDLFFIETLPGGHDGAIFSTAMID 360

AMH-1\_7 VQQFDEMTEQQFQVRAIDGDTGIGKAIHYTLETDEEEDLFFIETLPGGHDGAIFSTAMID 360

AMH-3\_1 VQQFDEMTEQQFQVRAIDGDTGIGKAIHYTLETDEEEDLFFIETLPGGHDGAIFSTAMID 360

AMH-2\_4 AQQFDEMTEQQFQVRAIDGDTGIGKAIHYTLETDEEEDLFFIETLPGGHDGAIFSTAMID 360

AMH-1\_2 VQQFDEMTEQQFQVRAIDGDTGIGKAIHYTLETDEEEDLFFIKTLPGGHDGAIFSTAMID 360

AMH-1\_11 VQQFDEMTEQQFQVRAIDGDTGIGKAIHYTLETDEEEDLFFIETLPGGHDGAIFSTAMID 360

AY198374 VQQFDEMTEQQFQVRAIDGDTGIGKAIHYTLETDEEEDLFFIETLPGGHDGAIFSTAMID 360

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AMH-3\_16 VDRLRRDVFRLSLVAYKYDNVSFATPTPVVIIVNDINNKQPQPLQDEYTISIMEETPLSL 419

AMH-2\_5 VDRFRRDVFRLSLVAYKYDNVSFATPTPVVIIVNDINNKQPQPLQDEYTISIMEETPLSL 420

AMH-3\_13 VDRLRRDVFRLSLVAYKYDNVSFATPTPVVIIVNDINNKQPQPPQDEYTISIMEETPLSL 420

AMH-2\_1 VDRLRRDVFRLSLVAYKYDNVSFATPTPVVIIVNDINNKQPQPLQDEYTISIMEETPLSL 420

AMH-1\_7 VDRLRRDVFRLSLVAYKYDNVSFATPTPVVIIVNDINNKQPQPLQDEYTISIMEETPLSL 420

AMH-3\_1 VDRLRRDVFRLSLVAYKYDNVSFATPTPVVIIVNDINNKQPQPLQDEYTISIMEETPLSL 420

AMH-2\_4 VDRLRRDVFRLSLVAYKYDNVSFATPTPVVIIVNDINNKQPQPLQDEYTISIMEETPLSL 420

AMH-1\_2 VDRLRRDVFRLSLVAYKYDNVSFATPTPVVIIVNDINNKKPQPLQDEYTISIMEETPLSL 420

AMH-1\_11 VDRLRRDVFRLSLVAYKYDNVSFATPTPVVIIVNDINNKQPQPLQDEYTISIMEETPLSL 420

AY198374 VDRLRRDVFRLSLVAYKYDNVSFATPTPVVIIVNDINNKKPQPLQDEYTISIMEETPLSL 420

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AMH-3\_16 NFAELFGFYDEDLIYAQFLVEIQGENPPGVEQAFYIAPTAGFQNQTFAIGTQDHRMLDYE 479

AMH-2\_5 NFAELFGFYVEDLIYAQFLVEIQGENPPGVEQAFYIAPTAGFQNQTFAIGTQDHRMLDYE 480

AMH-3\_13 NFAELFGFYDEDLIYAQFLVGIQGENPPGVEQAFYIAPTAGFQNQTFAIGTQDHRMLDYE 480

AMH-2\_1 NFAELFGFYDEDLIYAQFLVEIQGENPPGVEQAFYIAPTAGFQNQTFAIGTQDHRMLDYE 480

AMH-1\_7 NFAELFGFYDEDLIYAQFLVEIQGENPPGVEQAFYIAPTAGFQNQTFAIGTQDHRMLDYE 480

AMH-3\_1 NFAELFGFYDEDLIYAQFLVEIQGENPPGVEQAFYIAPTAGFQNQTFAIGTQDHRMLDYE 480

AMH-2\_4 NFAELFGFYDEDLIYAQFLVEIQGENPPGVEQAFYIAPTAGFQNQTFAIGTQDHRMLDYE 480

AMH-1\_2 NFAELFGFYDEDLIYAQFLVEIQGENPPGVEQAFYIAPTAGFQNQTFAIGTQDHRMLDYE 480

AMH-1\_11 NFAELFGFYDEDLIYAQFLVEIQGENPPGVEQAFYIAPTAGFQNQTFAIGTQDHRMLDYE 480

AY198374 NFAELFGFYDEDLIYAQFLVEIQGENPPGVEQAFYIAPTAGFQNQTFAIGTQDHRMLDYE 480

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AMH-3\_16 DVPFQNIKLKVIATDRDNTNFTGVAEVNVNLINWNDEEPIFEEDQLVVKFKETVPKDYHV 539

AMH-2\_5 DVPFQNIKLKVIATDRDNTNFTGVAEVNVNLINWNDEEPIFEEDQLVVKLKETVPKDYHV 540

AMH-3\_13 DVPFQNIKLKVIATDRDNTNFTGVAEVNVNLINWNDEEPIFEEDQLVVKFKETVPKDYHV 540

AMH-2\_1 DVPFQNIKLKVIATDRDNTNFTGVAEVNVNLINWNDEEPIFEEDQLVVKFKETVPKDYHV 540

AMH-1\_7 DVPFQNIKLKVIATDRDNTNLTGVAEVNVNLINWDDEEPIFEEDQLVVKFKETVPKDYHV 540

AMH-3\_1 DVPFQNIKLKVIATDRDNTNFTGVAEVNVNLINWNDEEPIFEEDQLVVKFKETVPKDYHV 540

AMH-2\_4 DVPFQNIKLKVIATDRDNTNFTGVAEVNVNLINWNDEEPIFEEDQLVVKFKETVPKDYHV 540

AMH-1\_2 DVPFQNIKLKVIATDRDNTNFTGVAEVNVNLINWNDEEPIFEEDQLVVKFKETVPKDYHV 540

AMH-1\_11 DVPFQNIKLKVIATDRDNTNFTGVAEVNVNLINWNDEEPIFEEDQLVVKFKETVPKDYHV 540

AY198374 DVPFQNIKLKVIATDRDNTNFTGVAEVNVNLINWNDEEPIFEEDQLVVKFKETVPKDYHV 540

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AMH-3\_16 GRLRAHDRDIGDSVVHSILGNANTFLRIDEETGDIYVTIDDAFDYHRQNEFNIQVRAQDT 599

AMH-2\_5 GRLRAHDRDIGDSVVHSILGNANTFLRIDEETGDIYVAIDDAFDYHRQNEFNIQVRAQDT 600

AMH-3\_13 GRLRAHDRDIGDSVVHSILGNANTFLRIDEETGDIYVTIDDAFDYHRQNEFNIQVRAQDT 600

AMH-2\_1 GRLRAHDRDIGDSVVHSILGNANTFLRIDEETGDIYVAIDDAFDYHRQNEFNIQVRAQDT 600

AMH-1\_7 GRLRAHDRDIGDSVVHSILGNANTFLRIDEETGDIYVTIDDAFDYHRQNEFNIQVRAQDT 600

AMH-3\_1 GRLRAHDRDIGDSVVHSILGNANTFLRIDEETGDIYVTIDDAFDYHRQNEFNIQVRAQDT 600

AMH-2\_4 GRLRAHDRDIGDSVVHSILGNANTFLRIDEETGDIYVAIDDAFDYHRQNEFNIQVRAQDT 600

AMH-1\_2 GRLRAHDRDIGDSVVHSILGNANTFLRIDEETGDIYVAIDDAFDYHRQNEFNIQVRAQDT 600

AMH-1\_11 GRLRAHDRDIGDSVVHSILGNANTFLRIDEETGDIYVTIDDAFDYHRQNEFNIQVRAQDT 600

AY198374 GRLRAHDRDIGDSVVHSILGNANTFLRIDEETGDIYVAIDDAFDYHRQNEFNIQVRAQDT 600

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AMH-3\_16 MSEPESRHTATAQLVIELEDVNNTPPTLRLPRVSPSVEENVPEGFEINREITATDPDTTA 659

AMH-2\_5 MSEPESRHTATAQLVIELEDVNNTPPTLRLPRVSPSVEENVPEGFEINREITATDPDTTA 660

AMH-3\_13 MSEPESRHTATAQLVIELEDVNNTPPTLRLPRVSPSVEENVPEGFEINREITATDPDTAA 660

AMH-2\_1 MSEPESRHTATAQLVIELEDVNNTPPTLRLPRVSPSVEENVPEGFEINREITATDPDTTA 660

AMH-1\_7 MSEPESRHTATAQLVIELEDVNNTPPTLRLPRVSPSVEENVPEGFEINREITATDPDTTA 660

AMH-3\_1 MSEPESRHTATAQLVIELEDVNNTPPTLRLPRVSPSVEENVPEGFEINREITATDPDTTA 660

AMH-2\_4 MSEPESRHTATAQLVIELEDVNNTPPTLRPPRVSPSVEENVPEGFEINREITATDPDTTA 660

AMH-1\_2 MSEPESRHTATAQLVIELEDVNNTPPTLRLPRVSPSVEENVPEGFEINREITATDPDTTA 660

AMH-1\_11 MSEPESRHTATAQLVIELEDVNNTPPTLRLPRVSPFVEENVPEGFEINREITATDPDTTA 660

AY198374 MSEPESRHTATAQLVIELEDVNNTPPTLRLPRVSPSVEENVPEGFEINREITATDPDTTA 660

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AMH-3\_16 YLQFEIDWDTSFATKQGRDTNPIEFHGCVDIETIFPNPADTREAVGRVVAKEIRHNVTID 719

AMH-2\_5 YLQFEIDWDTSFATKQGRDTNPIEFHGCVDIETIFPNPADTGEAVGRVVAKEIRHNVTID 720

AMH-3\_13 YLQFEIDWDTSFATKQGRDTNPIEFHGCVDIETIFPNPADTGEAVGRVVAKEIRHNVTID 720

AMH-2\_1 YLQFEIDWDTSFATKQGRDTNPIEFHECVDIETIFPNPADTREAVGRVVAKEIRHNVTID 720

AMH-1\_7 YLQFEIDWDTSFATKQGRDTNPVEFHGCVDIETIFPNPADTREAVGRVVAKEIRHNVTID 720

AMH-3\_1 YLQFEIDWDTSFATKQGRDTNPIEFHGCVDIETIFPNPADTREAVGRVVAKEIRHNVTID 720

AMH-2\_4 YLQFEIDWDTSFATKQGRDTNPIEFHGCVDIETIFPNPADTREAVGRVVAKEIRHNVTID 720

AMH-1\_2 YLQFEIDWDTSFATKQGRDTNPIEFHGCVDIETIFPNPADTREAVGRVVAKEIRHNVTID 720

AMH-1\_11 YLQFEIDWDTSFATKQGRDTNPVEFHGCVDIETIFPNPADTREAVGRVVAKEIRHNVTID 720

AY198374 YLQFEIDWDTSFATKQGRDTNPIEFHGCVDIETIFPNPADTREAVGRVVAKEIRHNVTID 720

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AMH-3\_16 FEEFEFLYLTVRVRDLHTEDGRDYDESTFTIIIIDMNDNWPIWASGFLNQTFSIRERSST 779

AMH-2\_5 FEEFEFRYLTVRVRDLHTDDGRDYDESTFTIIIIDMNDNWPIWASGFLNQTFSIRERSST 780

AMH-3\_13 FEEFEFLYLTVRVRDLHTEDGRDYDESTFTIIIIDANDNWPIWASGFLNQTFSIRERSST 780

AMH-2\_1 FEEFEFLYLTVRVRDLHTDDGRDYDESTFTIIIIDMNDNWPIWASGFLNQTFSIRERSST 780

AMH-1\_7 FEEFEFLYLTVRVRDLHTEDGRDYDESTFTIIIIDVNDNWPIWASGFLNQTFSIRERSST 780

AMH-3\_1 FEEFELLYLTVRVRDLHTEDGRDYDESTFTIIIIDMNDNWPIWASGFLNQTFSIRERSST 780

AMH-2\_4 FEEFESLYLTVRVRDLHTDDGRDYDESTFTIIIIDMNDNWPIWASGFLNQTFSIRERSST 780

AMH-1\_2 FEEFEFLYLTVRVRDLHTDDGRDYDESTFTIIIIDMNDNWPIWASGFLNQTFSIRERSST 780

AMH-1\_11 FEEFEFLYLTVRVRDLHTEDGRDYDESTFTIIIIDMNDNWPIWASGFLNQTFSIRERSST 780

AY198374 FEEFEFLYLTVRVRDLHTDDGRDYDESTFTIIIIDMNDNWPIWASGFLNQTFSIRERSST 780

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AMH-3\_16 GVVIGSVLATDIDGPLYNQVRYTIIPQEDTPEGLVQIHFDTGQITVDENGAIDADIPPRW 839

AMH-2\_5 GVVIGSVLATDIDGPLYNQVRYTIIPQEDTPEGLVQIHFVTGQITVDENGAIDADIPPRW 840

AMH-3\_13 GVVIGSVLATDIDGPLYNQVRYTIIPQEDTPEGLVQIHFVTGQITVDENGAIDADIPPRW 840

AMH-2\_1 GVVIGSVLATDIDGPLYNQVRYTIIPQEDTPEGLVQIHFVTGQITVDENGAIDADIPPRW 840

AMH-1\_7 GVVIGSVLATDIDGPLYNQVRYTIIPQEDTPEGLVQIHFVTGQITVDENGAIDADIPPRW 840

AMH-3\_1 GVVIGSVLATDIDGPLYNQVRYTIIPQEDTPEGLVQIHFVTGQITVDENGAIDADIPPRW 840

AMH-2\_4 GVVIGSVLATDIDGPLYNQVRYTIIPQEDTPEGLVQIHFVTGQITVDENGAIDADIPPRW 840

AMH-1\_2 GVVIGSVLATDIDGPLYNQVRYTIIPQEDTPEGPVQIHFVTGQITVDENGAIDADIPPRW 840

AMH-1\_11 GVVIGSVLATDIDGPLYNQVRYTIIPQEDTPEGLVQIHFVTGQITVDENGAIDADIPPRW 840

AY198374 GVVIGSVLATDIDGPLYNQVRYTIIPQEDTPEGLVQIHFVTGQITVDENGAIDADIPPRW 840

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AMH-3\_16 HLNYAVIASDKCSEENEENCPPDPVFWDTLRDNVINIVDINNKVPAADLSRLNETVYIHE 899

AMH-2\_5 HLNYTVIASDKCSEENEENCPPDPVFWDTLRDNVINIVDINNKVPAADLSRFNETVYIYE 900

AMH-3\_13 HLNYTVIASDKCSEENEENRPPDPVSWDTLGDNVINIVDINNKVPAADLSRFNETVYIYE 900

AMH-2\_1 HLNYTVIASDKCSEENEENCPPDPVFWDTLRDNVINIVDINNKVPAADLSRFNETVYIYE 900

AMH-1\_7 HLNYTVIASDKCSEENEENCPPDPVFWDTLGDNVINIVDINNKVPAADLSRFNETVYIYE 900

AMH-3\_1 HLNYTVIASDKCSEENEENCPPDPVFWDTLGDNVINIVDINNKVPAADLSRFNETVYIYE 900

AMH-2\_4 HLNYTVIASDKCSEENEENCPPDPVFWDTLRDNVINIVDINNKVPAADLSRFNETVYIYE 900

AMH-1\_2 HLNYTVIASDKCSEENEENCPPDPVFWDTLGDNVINIVDINNKVPAADLSRFNETVYIYE 900

AMH-1\_11 HLNYTVIASDKCSEENEENCPPDPVFWDTLGDNVINIVDINNKVPAADLSRFNETVYIYE 900

AY198374 HLNYTVIASDKCSEENEENCPPDPVFWDTLGDNVINIVDINNKVPAADLSRFNETVYIYE 900

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AMH-3\_16 NAPDFTNVVKIYSIDEDRDEIYHTVRYQINYAVNQRLRGFFAIDLDSGQVYVENTNNELL 959

AMH-2\_5 NAPDFTNVVKIYSIDEDRDEIYHTVRYQINYAVNQRLRDFFAIDLDSGQVYVENTNNELL 960

AMH-3\_13 NAPDFTNVVKIYSIDEDRDEIYHTVRYQINYAVNQRLRDFFAIDLDSGQVYVENANNELL 960

AMH-2\_1 NAPDFTNVVKIYSIDEDRDEIYHTVRYQINYAVNQRLRDFFAIDLDSGQVYVENTNNELL 960

AMH-1\_7 NAPDFTNVVKIYSIDEGRDEIYHTVRYQINYAVNQRLRDFFAIDLDSGQVYVENTNNELL 960

AMH-3\_1 NAPDFTNVVKIYSIDEDRDEIYHTVRYQINCAVNQRLRDFFAIDLDSGQVYVENTNNELL 960

AMH-2\_4 NAPDFTNVVKIYSIDEDRDEIYHTVRYQINYAVNQRLRDFFAIDLDSGQVYVENTNNELL 960

AMH-1\_2 NAPDFTNVVKIYSIDEDRDEIYHTVRYQINYAVNQRLRDFFAIDLDSGQVYVENTNNELL 960

AMH-1\_11 NAPDFTNVVKIYSIDEDRDEIYHTVRYQINYAVNQRLRDFFAIDLDSGQVYVENTNNELL 960

AY198374 NAPDFTNVVKIYSIDEDRDEIYHTVRYQINYAVNQRLRDFFAIDLDSGQVYVENTNNELL 960

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AMH-2\_5 DRDRGEDQHRIFINLIDNFYSEGDGNRNVNTTEVLVILLDENDNAPELPTPEELSWSISE 1020

AMH-3\_13 DRDRGEDQHRIFINLIDNFYSEGDGNRNVNTTEVLVILLDENDNAPELPTPEELSWSISE 1020

AMH-2\_1 DRGRGEDQHRIFINFIDNFYSEGDGNRNVNTTEVLVILLDENDNAPELPTPEELSWSISE 1020

AMH-1\_7 DRDGGEDQHRIFINLIDNFYSEGDGNRNVNTTEVLVILLDENDNAPELSTPEELSWSISE 1020

AMH-3\_1 DRGRGEDQHRIFINHIDNFYSEGDGNRNVNTTEVLVILLDENDNAPELPTPEELSWSISE 1020

AMH-2\_4 DRDRGEDQHRIFINLIDNFYSEGDGNRNVNTTEVLVILLDENDNAPELPTPEELSWSISE 1020

AMH-1\_2 DRDRGEDQHRIFINLIDNFYSEGDGNRNVNTTEVLVILLDENDNAPELPTPEELSWSISE 1020

AMH-1\_11 DRDRGEDQHRIFINLIDNFYSEGDGNRNVNTTEVLVILLDENDNAPELPTPEELSWSISE 1020

AY198374 DRDRGEDQHRIFINLIDNFYSEGDGNRNVNTTEVLVILLDENDNAPELPTPEELSWSISE 1020

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AMH-3\_16 NLQEGITLDGESDVIYAPDIDEEDTPNSHVGYAILAMTVTNRDLDTVPRLLNMLSPNNVT 1079

AMH-2\_5 NLQEGITLDGESDVIYAPDIDEEDTPNSHVGYAILAMTVTNRDLDTVPRLLNMLSPNNVT 1080

AMH-3\_13 NLQEGITLDGERDVIYAPDIDEEDTPNSHVGYAILAMTVTNRDLDTVPRLLNMLSPNNVT 1080

AMH-2\_1 NLQEGITLDGESDVVYAPDIDEEDTPNSHVGYAILAMTVTNRDLDTVPRLLNMLSPNNVT 1080

AMH-1\_7 NLQEGITLDGESDVIYAPDIDEEDTPNSHVGYAILAMTVTNRDLDTVPRLLNMLSPNNVT 1080

AMH-3\_1 NLQEGITLDGERDVIYAPDIDEEDTPNSHVGYAILAMTVTNRDLDTVPRLFNMLSPNNVT 1080

AMH-2\_4 NLQEGITLDGESDVIYAPDIDEEDTPNSHVGYAILAMTVTNRDLDTVPRLLNMLSPNNVT 1080

AMH-1\_2 NLQEGITLDGERDVIYAPDIDEEDTPNSHVGYAILAMTVTNRDLDTVPRLLNMLSPNNVT 1080

AMH-1\_11 NLQEGITLDGESDVIYAPDIDEEDTPNSHVGYAILAMTVTNRDLDTVPRLLNMLSPNNVT 1080

AY198374 NLQEGITLDGESDVIYAPDIDEEDTPNSHVGYAILAMTVTNRDLDTVPRLLNMLSPNNVT 1080

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AMH-3\_16 GFLQTAMPLRGYWGTYDISVLAFDHGIPQQISHEVYELEIRPYNYNPPQFVFPESGTILR 1139

AMH-2\_5 GFLQTAMPLRGYWGTYDISVLAFDHGIPQQISHEVYELEIRPYNYNPPQFVFPESGTILR 1140

AMH-3\_13 GFLQTAMPLRGYWGTYDISILAFDHGIPQQISHEVYELEIRPYNYNPPQFVFPESGTILR 1140

AMH-2\_1 GFLQTAMPLRGYWGTYDISVLAFDHGIPQQISHEVYELEIRPYNYNPPQFVFPESGTILR 1140

AMH-1\_7 GFLQTAMPLRGYWGTYDISILAFDHGIPQQISHEVYELEIRPYNYNPPQFVFPESGTILR 1140

AMH-3\_1 GFLQTAMPLRGYWGTYDISILAFDHGIPQQISHEVYELEIRPYNYNPPQFVFPESGTILR 1140

AMH-2\_4 GFLQTAMPLRGYWGTYDISVLAFDHGIPQQISHEVYELEIRPFNYNPPQFVFPESGTILR 1140

AMH-1\_2 GFLQTAMPLRGYCGTYDISILAFDHGIPQQISHEVYELEIRPYNYNPPQFVFPESGTILR 1140

AMH-1\_11 GFLQTAMPLRGYWGTYDISILAFDHGIPQQISHEVYELEIRPYNYNPPQFVFPESGTILR 1140

AY198374 GFLQTAMPLRGYWGTYDISILAFDHGIPQQISHEVYELEIRPYNYNPPQFVFPESGTILR 1140

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AMH-3\_16 LALERAVVNNVLSLVNGDPLDRIQAVDDDGLDAGVVTFDIVGDADASNYFRVNNDGDNFG 1199

AMH-2\_5 LALERAVVNNVLSLVNGDLLDRIQAIDDDGLDAGVVTFDIVGDADASNYFRVNNDGDNFG 1200

AMH-3\_13 LALERAVVNNVLSLVNGDPLDRIQAIDDDGLDAGVVTFDIVGDADASNYFRVNNDGDNFG 1200

AMH-2\_1 LALERAVVNNVLSLVNGDLLDRIQAIDDDGLDAGVVTFDIVGDADASNYFRVNNDGDNFG 1200

AMH-1\_7 LALERAVVNNVLSLVNGDPLDRIQAIDDDGLDAGVVTFDIVGDADASNYFRVNNDGDNFG 1200

AMH-3\_1 LALERAVVNNVLSLVNGDPLDRIQAIDDDGLDAGVVTFDIVGDADASNYFRVNNDGDNFG 1200

AMH-2\_4 LALERAVVNNVLSLVNGDLLDRIQAIDDDGLDAGVVTFDIVGDADASNYFRVNNDGDNFG 1200

AMH-1\_2 LALERAVVNNVLSLVNGDPLDRIQAIDDDGLDAGVATFDIVGDADASNYFRVNNDGDNFG 1200

AMH-1\_11 LALERAVVNNVLSLVNGDPLDRMQAIDDDGLDAGVVTFDIVGDADASNYFRVNNDGDNFG 1200

AY198374 LALERAVVNNVLSLVNGDPLDRIQAIDDDGLDAGVVTFDIVGDADASNYFRVNNDGDNFG 1200

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AMH-3\_16 TLLLTQALPEEGKEFEVTIRATDGGTEPRSYSTDSTITVLFVPTLGDPIFQDNTYSVAFF 1259

AMH-2\_5 TLLLTQALPEEGKEFEVTIRATDGGTEPRSYSTDSTITVLFVPTLGDPIFQDNTYSVAFF 1260

AMH-3\_13 TLLLTQALPEEGKEFEVTIRATGGGTEPRSYSTDSTITVLFVPTLGDPIFQDNTYSVAFF 1260

AMH-2\_1 TLLLTQALPEEGKEFEVTIRATDGGTEPRSYSTDSTITVLFVPTLGDPIFQDNTYSVAFF 1260

AMH-1\_7 TLLLTQALPEEGKEFEVTIRATDGGTEPRSYSTDSTITVLFVPTLGDPIFQDNTYSVAFF 1260

AMH-3\_1 TLLLTQALPEEGKEFEVTIRATGGGTEPRSYSTDSTITVLFVPTLGDPIFQDNTYSVAFF 1260

AMH-2\_4 TLLLTQALPEEGKEFEVTIRATDGGTEPRSYSTDSTITVLFVPTLGDPIFQDNTYSVAFF 1260

AMH-1\_2 TLLLTQALPEEGKEFEVTIRATDGGTEPRSYSTDSTITVLFVPTLGDPIFQDNTYSVAFF 1260

AMH-1\_11 TLLLTQALPEEGKEFEVTIRATDGGTEPRSYSTDSTITVLFVPTLGDPIFQDNTYSVAFF 1260

AY198374 TLLLTQALPEEGKEFEVTIRATDGGTEPRSYSTDSTITVLFVPTLGDPIFQDNTYSVAFF 1260

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AMH-3\_16 EKEVGLTERFTLPLAEDPKNKLCTDDCHDIYYRIFGGVDYEPFDLDPVTNVIFLKSELDR 1319

AMH-2\_5 EKEVGLTERFSLPHAEDPKNKLCTDDCHDIYYRIFGGVDYEPFDLDPVTNVIFLKSELDR 1320

AMH-3\_13 EKEVGLTERFSLPLAEDPKNKLCTDDCHDIYYRIFGGADYEPFDLDPVTNVIFLKSELDR 1320

AMH-2\_1 EKEVGLTERFSLPHAEDPKNKLCTDDCHDIYYRIFGGVDYEPFDLDPVTNVIFLKSELDR 1320

AMH-1\_7 EKEVGLTERFSLPHAEDPKNKLCTDDCHDIYYRIFGSVDYEPFDLDPVTNVIFLKSELDR 1320

AMH-3\_1 EKEVGLTERFSLPLAEDPKNKLCTDDCHDIYYRIFGGVDYEPFDLDPVTNVIFLKSELDR 1320

AMH-2\_4 EKEVGLTERFSLPHAEDPKNKLCTDDCHDIYYRIFGGVDYEPFDLDPVTNVIFLKSELDR 1320

AMH-1\_2 EKEVGLTERFSLPHAEDPKNKLCTDDCHDIYYRIFGGVDYEPFDLDPVTNVIFLKSELDR 1320

AMH-1\_11 EKEVGLTERFSLPHAEDPKNKLCTDDCHDIYYRIFGGVDYEPFDLDPVTNVIFLKSELDR 1320

AY198374 EKEVGLTERFSLPHAEDPKNKLCTDDCHDIYYRIFGGVDYEPFDLDPVTNVIFLKSELDR 1320

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AMH-3\_16 DTTATHVVQVAASNSPTGGGIPLPGSLLTVTVTVREADPRPVFEQRLYTAGISTSDNINR 1379

AMH-2\_5 ETTATHVVQVAASNSPTGGGIPLPGSLLTVTVTVREADPRPVFEQRLYTAGISTSDNINR 1380

AMH-3\_13 ETTATHVVQVAASNSPTGGGIPLPGSLLTVTVTVREADPRPVFEQRLYTAGISTSDNINR 1380

AMH-2\_1 ETTATHVVQVAASNSPTGGGIPLPGSLLTVTVTVREADPRPVFEQRLYTAGISTSDNINR 1380

AMH-1\_7 ETTATHVVQVAASNSPTGGGIPLPGSLLTVTVTVREADPRPVFEQRLYTADISTSDNINR 1380

AMH-3\_1 ETTATHVVQVAASNSPTGGGIPLPGSLLTVTVTVREADPRPVFEQRLYTAGISTSDNINR 1380

AMH-2\_4 ETTATQVVQVAASNSPTGGGIPLPGSLLTVTVTVREADPRPVFEQRLYTAGISTSDNINR 1380

AMH-1\_2 ETTATHVVQVAASNSPTGGGIPLPGSLLTVTVTVREADPRPVFEQRLYTAGISTSDNINR 1380

AMH-1\_11 ETTATHVVQVAASNSPTGGGIPLPGSLLTVTVTVREADPRPVFEQRLYTAGISTSDNINR 1380

AY198374 ETTATHVVQVAASNSPTGGGIPLPGSLLTVTVTVREADPRPVFEQRLYTAGISTSDNINR 1380

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AMH-3\_16 ELLTVRATHSENAQLTYTIEDGSMVVDSTLEAVKDSAFHLNAQTGVLILRIQPTASMQGM 1439

AMH-2\_5 ELLTVRATHSENAQLTYTIEDGSMVVDSTLEAVKDSAFHLNAQTGVLILRIQPTASMQGM 1440

AMH-3\_13 ELLTVRATHSENAQLTYTIEDGSMVVDSTLEAVKDSAFHLNAQTGVLILRIQPTASMQGM 1440

AMH-2\_1 ELLTVRATHSENAQLTYTIENGSMVVDSTLEAVKDSAFHLNAQTGVLILRIQPTASMQGM 1440

AMH-1\_7 GLLTVRATHSENAQLTYTIEDGSMAVDSTLEAVKDSAFHLNAQTGVLILRIQPTASMQGM 1440

AMH-3\_1 ELLTVRATHSENAQLTYTIEDGSMVVDSTLEAVKDSAFHLNAQTGVLILRIQPTASMQGM 1440

AMH-2\_4 ELLTVRATHSENAQLTYTIEDGSMVVDSTLEAVKDSAFHLNAQTGVLILRIQPTASMQGM 1440

AMH-1\_2 ELLTVRATHSENAQLTYTIEDGSMAVDSTLEAVKDSAFHLNAQTGVLILRIQPTASMQGM 1440

AMH-1\_11 ELLTVRATHSENAQLTYTIEDGSMAVDSTLEAVKDSALHLNAQTGVLILRIQPTASMQGM 1440

AY198374 ELLTVRATHSENAQLTYTIEDGSMAVDSTLEAVKDSAFHLNAQTGVLILRIQPTASMQGM 1440

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AMH-3\_16 FEFNVIATDPDEKTDTAEVKVYLISSQNRVSFIFLNDVETVESNRDFIAETFSVGFNMTC 1499

AMH-2\_5 FEFNVIATDPDEKTDTAEVKVYLISSQNRVSFIFLNDVETVESNRDFIAETFSVGFNMTC 1500

AMH-3\_13 FEFNVIATDPDEKTDTAEVKVYLISSQNRVSFIFLNDVETVESNRDFIAETFSVGFNMTC 1500

AMH-2\_1 FEFNVIATDPDEKTDTAEVKVYLISSQNRVSFIFLNDVETVESNGDFIAEAFSVGFNMTC 1500

AMH-1\_7 FEFNVIATDPDEKTDAAEVKVYLISSQNRVSFIFLNDVETVESNRDFIAETFSVGFNMTC 1500

AMH-3\_1 FEFNVIATDPDEKTDTAEVKVYLISSQNRVSFIFLNDVETVESNRDFIAETFSVGFNMTC 1500

AMH-2\_4 FEFNVIATDPDERTDTAEVKVYLISSQNRVSFIFLNDVETVESNRDFIAETISVGFNMTC 1500

AMH-1\_2 FEFNVIATDPDEKTDTAEVKVYLISSQNGVSFIFLNDVETVESNRDFIAETFSVGFNMTC 1500

AMH-1\_11 FEFNVVATDPDEKTDTAEVKVYLISSQNRVSFIFLNDVETVESNRDFIAETFSVGFNMTC 1500

AY198374 FEFNVIATDPDEKTDTAEVKVYLISSQNRVSFIFLNDVETVESNRDFIAETFSVGFNMTC 1500

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AMH-3\_16 NIDQVLPGTNDAGVIQEAMAEVHAHFIQDNIPVSADSIEELRSDTQLLRSVQGVLNQRLL 1559

AMH-2\_5 NIDQVLPGTNDAGVIQEAMAEVHAHFIQDNIPVSADGIEELRSDTQLLRSVQGALNQRLL 1560

AMH-3\_13 NIDQVLPGTNDAGVIQEAMAEVHAHFIQDNIPVSADSTEELRSDTQLLRSVQGVLNQRLL 1560

AMH-2\_1 NIDQVLPGTNDAGVIQEAMAEVHAHFIQDNIPVSADSIEELRSDTQLLRSVQGVLNQRLL 1560

AMH-1\_7 NIDQVLPGTNDAGVIQEAMAEVHAHFMQDNIPVSADSIEELRSDTQLLRSVQGVLNQRLL 1560

AMH-3\_1 NIDQVLPGTNDAGVIQEAMAEVHAHFIQDNIPVSADSIEELRGDTQLLRSVQGVLNQRLL 1560

AMH-2\_4 NIDQVLPGTNDAGVIQEAMAEVHAHFIQDNIPVSADSIEELRSDTQLLRSVQGVLNQRLL 1560

AMH-1\_2 NIDQVLPGTNDAGVIQEAMAEVHAHFIQDNIPVSADSIEELRSDTQLLRSVQGVLNRRLL 1560

AMH-1\_11 NIDQVLPGTNDAGVIQEAMAEVHAHFIQDNIPVSADSIEELRSDTQLLRSVQGVLNQRLL 1560

AY198374 NIDQVLPGTNDAGVIQEAMAEVHAHFIQDNIPVSADSIEELRSDTQLLRSVQGVLNQRLL 1560

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AMH-3\_16 VLNDLVTGVSPDLGTAGVQITIYVLAGLSAILAFLCLILLITFIVRTRALNRRLEALSMT 1619

AMH-2\_5 VLNDLVTGVSPDLGTAGVQITIYVLAGLSAILAFLCLILLITFIVRTRALNRRLEALSMT 1620

AMH-3\_13 VLNDLVTGVSPDLGTAGVQITIYVLAGLSAILAFLCLILLITFIVRTRALNRRLEALSMT 1620

AMH-2\_1 VLNDLVTGVSPDLGTAGVQITIYVLAGLSAILAFLCLILLITFIVRTRALNRRLEALSMT 1620

AMH-1\_7 VLDDLVTGVSPDLGTAGVQITIYVLAGLSAILAFLCLILLITFIVRTRALNRRLEALSMT 1620

AMH-3\_1 VLNDLVTGVSPDLGTAGVQITIYVLAGLSAILAFLCLILLITFIVRTRALNRRLEALSMT 1620

AMH-2\_4 VLNDLVTGVSPDLGTAGVQITIYVLAGLSAILAFLCLILLITFIVRTRALNRRLEALSMT 1620

AMH-1\_2 VLNDLVTGVSPDLGTAGVQITIYVLAGLSAILAFLCLILLITFIVRTRALNRRLEALSVT 1620

AMH-1\_11 VLNDLVTGVSPDLGTAGVQITIYVLAGLSAILAFLCLILLITFIVRTRALNRRLEALSMT 1620

AY198374 VLNDLVTGVSPDLGTAGVQITIYVLAGLSAILAFLCLILLITFIVRTRALNRRLEALSMT 1620

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AMH-3\_16 KYGSVDSGLNRVGIAAPGTNKHAIEGSNPIWNEQIKAPDFDAISDTSDESDLIGIEDLPQ 1679

AMH-2\_5 KYGSVDSGLNRVGIAAPGTNKHAIEGSNPIWNEQIKAPDFDAISDTSDESDLIGIEDLPQ 1680

AMH-3\_13 KYGSVDSGLSRVGIAAPGTNKHAIEGSNPIWNEQIKAPDFDAISDTSDESDLIGIEDLPQ 1680

AMH-2\_1 KYGSVDSGLNRVGIAAPGTNKHAIEGSNPIWNEQIKAPDFDAISDTSDESDLIGIEDLPQ 1680

AMH-1\_7 KYGSVDSGLNRVGIAAPGTNKHAIEGSHPIWNEQIKAPDFDAISDTSDESDLIGIEDLPQ 1680

AMH-3\_1 KYGSVDSGLNRVGIAAPGTNKHAIEGSNPIWNEQIKAPDFDAISDTSDESDLIGIEDLPQ 1680

AMH-2\_4 KYGSVDSGLNRVGIAAPGTNKHAIEGSNPIWNEQIKAPDFDAISDTSDESDLIGIEDLPQ 1680

AMH-1\_2 KYGSVDSGLNRVGIAAPGTNKHAIEGSNPIWNEQIKAPDFDAISDTSDESDLIGIEDLPQ 1680

AMH-1\_11 KYGSVDSGLNRVGIAAPGTNKHAIEGSNPIWNEQIKAPDFDAISDTSDESDLIGIEDLPQ 1680

AY198374 KYGSVDSGLNRVGIAAPGTNKHAIEGSNPIWNEQIKAPDFDAISDTSDESDLIGIEDLPQ 1680

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AMH-3\_16 FRSDYFPPEDSESAHASFSDRTPRGNDAPIAHSSNNFGFNTSPFSAEFTNRRMRP 1734

AMH-2\_5 FKSDYFPPEDSESAHAAFSDRTPRGNDAPIAHSSNNFGFNTSPFSAGFTNRRMRP 1735

AMH-3\_13 FKSDYFPPEDSESAHAAFSDRTPRGNDAPIAHSSNNFGFNTSPFSAEFTNRRMRP 1735

AMH-2\_1 FKSDYFPPEDSESAHAAFSDRTPRGNDAPIAHSSNNFGFNTSPFSAEFTNRRMRP 1735

AMH-1\_7 FKSDYFPPEDSESAHAAFSDRTPRGNDAPIAHSSNNFGFNTSPFSAEFTNRRMRP 1735

AMH-3\_1 FKSDYFPPEDSESAHAAFSDRTPRGNDAPIAHSSNNFGFNTSPFSAEFTNRRMRP 1735

AMH-2\_4 FKSDYFPPEDSESAHAAFSDRTPRGNDAPIAHSSNNFGFNTSPFSAEFTNRRMRP 1735

AMH-1\_2 FKSGYFPPEDSESAHAAFSDRTPRGNDAPIAHSSNNFGFNTSPFSAEFTNRRMRP 1735

AMH-1\_11 FKSDYFPPEDSESAHAAFSDRTPRGNDAPIAHSSNNFGFNTSPFSAEFTNRRMRP 1735

AY198374 FKSDYFPPEDSESAHAAFSDRTPRGNDAPIAHSSNNFGFNTSPFSAEFTNRRMRP 1735

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