>Human\_ALPL\_Hsa1:21,835,858\_NP\_000469.3\_[Homosapiens]ENSG00000162551

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>Human\_ALPP\_Hsa2:233,243,244\_NP\_001623.3\_[Homosapiens]\_ENST00000392027

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>Human\_ALPPL2\_Hsa2:233,271,553\_NP\_112603.2\_[Homosapiens]\_ENST00000295453

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>Human\_ALPI\_Hsa2:233,320,833\_NP\_001622.2\_[Homosapiens]\_ENSG00000163295

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>Mouse\_Alppl2\_Mmu1:88,983,265\_ENSMUST00000027455[Mouse

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>Mouse\_Alpi\_Mmu1:88,994,579\_ENSMUST00000113270[mouse

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>Mouse\_Akp3\_Mmu1:89,021,583\_ENSMUST00000044878[mouse

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>Mouse\_Alpl\_Mmu4:137,297,648\_ENSMUST00000030551

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>Chimpanzee\_Alpi2\_Ptr2B:2B:237,629,972\_XP\_003309566\_[Pantroglodytes]

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>Chimpanzee\_ALPI\_Ptr2B:237,674,869\_ENSPTRT00000024165

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>Chimpanzee\_Alpi2\_Ptr2B:237,628,025\_XP\_003309565\_[Pantroglodytes]

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>Chimpanzee\_ALPPL2\_Ptr2B:237,601,898\_ENSPTRT00000024162

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>Chimpanzee\_Alpp1\_Ptr2B:237,629,972\_XP\_001146156.2\_[Pan\_troglodytes]

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>Chimpanzee\_ALPL\_Ptr1:21,545,230\_[Pantroglodytes]\_ENSPTRT00000000592

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>Gorilla\_Alpi\_Ggo2b:121,629,034\_ENSGGOT00000006932[Gorilla]

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>Gorilla\_Alpi2\_Ggo2b:121,675,563\_ENSGGOT00000029718[Gorilla]

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>Gorilla\_Ggo1:22,219,201\_Alpl\_ENSGGOT00000010755[Gorilla]

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>Orangutan\_Alpl\_Pabe1:208,882,705\_ENSPPYT00000002103[Pongo\_abelii\_oran]

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>Orangutan\_Alpi\_Pabe2b:124,766,615\_ENSPPYT00000015437[Pongo\_abelii\_oran]

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>Orangutan\_Alpi2\_Pabe2b:124,799,448\_ENSPPYT00000015439[Pongo\_abelii\_oran]

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>Orangutan\_Alpi3\_Pabe2b:124,858,716\_unannotated[Pongo\_abelii\_oran]

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>Bushbaby\_GL873532.1:1,226,778\_ENSOGAT00000009144\_[Otolemur\_garnettii]

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>Bushbaby\_Alpl\_GL873528.1:3,789,502\_ENSOGAT00000011257\_[Otolemur\_garnettii]

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>Gibbon\_Alppl2\_GL397366.1:5,730,772\_ENSNLET00000018155[Nomascus\_leucogenys\_gibbon]

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>Gibbon\_Alppl2b\_GL397366:5,749,332\_ENSNLET00000018171[Nomascus\_leucogenys]

MQGPWVLLLLGLRLQLSLGVIPVEEENPAFWNRQAAEALDAAKKLQPIQKVAKNLILFLGDGMGVPTVTATRILKGQKNGKLGPETPLAMDRFPYLALSKTYNVDRQVPDSAGTATAYLCGVKGNFQTIGLSAAARFNQCNTTRGNEVISVMNRAKQAGKSVGVVTTTRVQHASPAGTYAHTVNRNWYSDADMPASARQDGCQDIATQLISNMDIDVILGGGRKYMFPMGTPDPEYPSDASQNGIRLDGKNLVQEWLAKHQGARYVWNRTELTQASLDQSVTHLMGLFEPGDTKYEINRDPTLDPSLMEMTEAALRLLSRTPGFYLFVEGGRIDHGHHEGVAYRALTEAVMFDDAIERAGQLTSEEDTLTLVTADHSHVFSFGGYTLRGSSIFGLAPSKAQDSKVYTSILYGNGPGYVLNSGVRPDVNESESGSPDYQQQAAVPLSSETHGGEDVAVFARGPQAHLVHGVQEQSFVAHVMAFAACLEPYTACDLAPPGTTDAAHPVPASLPLLAGTLLLLGASAAP

>Gibbon\_Alpl\_GL397339:2,508,317\_ENSNLET00000010290[Nomascus\_leucogenys]

MISPFLVLAIGTCLTSSLVPEKEKDPKYWRDQAQETLKYALELQKLNTNVAKNVIMFLGDGMGVSTVTAARILKGQLHHNPGEETRLEMDKFPFVALSKTYNTNAQVPDSAGTATAYLCGVKANEGTVGVSAATERSRCNTTQGNEVTSILRWAKDAGKSVGIVTTTRVNHATPSAAYAHSADRDWYSDNEMPPEALSQGCKDIAYQLMHNIRDIDVIMGGGRKYMYPKNKTDVEYEIDEKARGTRLDGLDLVDTWKSFKPRHKHSHFIWNRTELLTLDPHNVDYLLGLFEPGDMQYELNRNNVTDPSLSEMVVVAIQILRKNPKGFFLLVEGGRIDHGHHEGKAKQALHEAVEMDRAIGQAGSMTSSEDTLTVVTADHSHVFTFGGYTPRGNSIFGLAPMLSDTDKKPFTAILYGNGPGYKVVGGERENVSMVDYAHNNYQAQSAVPLRHETHGGEDVAVFSKGPMAHLLHGVHEQNYIPHVMAYAACIGANLDHCAPASSAGSLAAGPLLLALALFPLSILF

>Lemur\_Alpi\_Scaf\_2374:327,736\_ENSMICT00000012117[Microcebus\_murinus]

MQGSWVLLLLLLLGLRLQLSLCVIPGVEENPAFWNLKAAEALDAAKKLQPIQTMAKNLILFLGDGMGVPTVTAARILKGQLNGNLGPETPLAMDQFPHLALSKTYNVDRQVPDSAGTATAYLCGVKANYQTIGLSAAARLNQCNTTRGNEVLSVMNRAKKAGKSVGVVTTTRVQHASPAGTYAHIVNRNWYSDADMPASALQEGCQDIATQLISNMDIDVILGGGRKYMFPRGTPDPEYPSDASQNGTRLDGKNLVQEWLSTRPGARYVWNRSELIQASLDTSVTHLMGLFEPGDTKYETQRDPELDPSLMEMTEVALRVLSRNPQGFYLFVEGGRIDHGHHNGRAFRALTEAIMFDSTINMTGQLTSEQDTLTLVTADHSHVFSFGGYTFRGSSIFGLAPSKAQDGKAYTSILYGNGPGFALDSGTRPDVSESESEVPTYRQQAAVPLSSETHGGEDVAVFARGPVPAPAAGSLLLATALPPPQASAW

>Lemur\_Alpl\_Scaf\_4864:21,954\_ENSMICT00000013922\_[Microcebus\_murinus]

MISAFLVLAIGTCLANSLVPEKEKDPKYWRDQAQQTLKHALGLQKLNTNVAKNVIMFLGD GMGVSTVTAARILKGQLHHNTGEETKLEMDKFPFVALSKTYNTNAQVPDSAGTATAYLCG VKANEGTVGVSAATERTRCNTTQGNEVTSILRWAKDAGKSVGIVTTTRVNHATPSAAYAH SADRDWYSDNEMPPEALSQGCKDIAYQLMHNIRDIDVIMGGGRKYMYPKNRTDVEYEMDE KARGTRLDGLNLIDIWKSFKPKHKXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX XXXXXXXXXXXXXXXXXQVLRKNPKFFLLVEGGRIDHGHHEGKAKQALHEAVEMDQAIGL ADNMTSLQDTLTVVTADHSHVFTFGGYTPRGNSIGLAPMLSDTDKKPFTAILYGNGPGYK VVGGERENVSMVDYAHNNYQAQSAVPLRHETHGGEDVAVFAKGPMAHLLHGVHEQNYIPH VMAYAACIGANLNHCPGSSAGSPAPGALLLLTCPLAL

>Lemur\_Alpi1\_Mamul12:96,240,252\_ENSMMUT00000009760[Macaca\_mulatta]

MRGPWVLLLLLGLRLQLSLGIIPVEEENPDFWNRQAAEALGAAKKLQPIQTAAKNLIIFLGDGMGVSTVTAARILKGQKEDKLGPETPLAMDHFPYVALSKTYSVDKHVPDSAATATAYLCGVKGNFQTIGLSAAARYNQCNTTRGNEVVSVMNRAKKAGKSVGVVTTTRVQHASPAGAYAHTVNRNWYSDANMPGSARREGCKDIATQLISNMDIDVILGGGRKYMFRMGAPDPEYPHDYSQDGTRMDGKNLVQEWLAKQQGARYVWNRTELMQASLDPSVTHLMGLFEPGDMKYEIHRDPTLDPSLMEMTEAALRLLSRNPRGFFLFVEGGRIDHGHHESRAYRALTEAVMHSTAVFSSTTGTPLSAGLAPGKAQDRKAYTALLYGNGPGYVLKDGARPDVTESESGDPEYRQQAAVPLDEETHAGEDVAVFARGPQAHLVHGVQEQSFIAHVMAFAACLEPYTACDLAPPAGTTDTAHPGRSAVPESLPLLAAALLLLGMVTAP

>Macaque\_Alpi2\_Mamul12:96,279,925\_ENSMMUT00000044400[Macaca\_mulatta]

SPLPVEEENPDFWNYQAAKALGAAKKLQPAQTAAKNLIIFLGDGMGVSTVTAARILKRQKKGKLGPETPLAMDHFPYVALSKTYSVDKHVPDSAATATAYLCGVKDNFQTIGLSAAARYNQCNTTRSNEVVSVMNRAKKAGKSVGVVTTTRVQHASPAGAYAHTVNRNWYSDTNVPASARREGCKDIATQLISNMDIDVILGGGQKYMFPMGTPDPEYPHDYSQDGTRMDGKNLVQEWLAKQQGARYVWNRTELMQASLDHQGTPCPTGLFEPGDMKYEIHRDPTLDPSLMEMTEAALRLLSRNRRGFFLFVEGGRIHHGHHESRAYRALTEAVMFDDAIERAGQLTSEEDTLTLVTADHSHVFSFGAYPLRGSSIFRLAPGKAQDRKAYTALLYGNGPGYVLKDGARPDVTESQSGSPEYRQQSGVPLDEETHADEDVAVFARGPQAHLVHGVQEQSFVAHVMAFAACLEPYTA

>Macaque\_Alpi3\_Scaf1099548049583:18,498\_ENSMMUT00000023700[Macaca\_mulatta]

MQGPWVLLLLGLRLQLSLGIIPAEEENPAFWNRQAAEALDAAKKLQPIQKVAKNLILFLGDGMGVPTVSLVRGRPVCGTAWGASLPGMMPRESWCLYSQTYNVDRQVPDSAGTATAYLCGVKANYQTIGLSAAARYNQCNTTRGNEVISVMNRAKKAGKSVGVVTTTRVQHASPAGTYAHTVNRNWYSDADMPASARQDGCQDIATQLISNVDIDVILGGGRKYMFPRGTPDPEYPSDASQNGIRLDGKYLVQEWLTKHQGARYVWNRTELMQASLDQSVTHLMGLFEPGDMKYEINRDPTLDPSLLEMTEAALRLLSRNPRGFYLFVEGGRIDHGHHEGLAYHALTEAVMFDDAIERAGQLTSEEDTLTLITADHSHVFSFGGYTFRGSSIFGLAPSKAQDSKAYTSILYGNGPGYVLNSGVRPDVNESESGDPDYRQQAAVPLSSETHGGEDVAVFARGPQAHLVHGVQEQSFVAHVMAFAACLEPYTACDLAPPAGTT

>Macaque\_Alpl\_Mamul1:24,158,856\_ENSMMUT00000003136[Macaca\_mulatta]

MISPFLVLAIGTCLTNSLVPEKEKDPKYWRDQAQETLKYALELQKLNTNVAKNVIMFLGDGMGVSTVTATRILKGQLHHNPGEETRLEMDKFPFVALSKTYNTNAQVPDSAGTATAYLCGVKANEGTVGVSAATERSRCNTTQGNEVTSILRWAKDAGKSVGIVTTTRVNHATPSAAYAHSADRDWYSDNEMPPEALSQGCKDIAYQLVHNIRDIDVIMGGGRKYMYPKNKTDVEYEIDEKARGTRLDGLDLVNIWKSFKPRHKHSHFIWNRTELLTLDPHNVDYLLGLFEPGDMEYELNRNNVTDPSLSEMVVVAIQILRKNPKGFFLLVEGGRIDHGHHEGKAKQALHEAVEMDRAIGQAGSMTSLEDTLTVVTADHSHVFTFGGYTPRGNSIFGLAPMLSDTDKKPFTAILYGNGPGYKVVGGERENVSMVDYAHNNYQAQSAVPLRHETHGGEDVAVFSKGPMAHLLHGVHEQNYIPHVMAYAACIGANLDHCAPASSAGSLAAGPLLLPLALFPLSILF

>Marmoset\_Alpi1\_Cajac6:148,870,627ENSCJAT00000026638[Callithrix\_jacchus]

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>Marmoset\_Alpi2\_Cjac6:148,802.081\_johnbuilt[Callithrix\_jacchus\_Marmoset]

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>Marmoset\_Alpi2\_Cjac6:148,798,191\_ENSCJAT00000026621[Callithrix\_jacchus]

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>Marmoset\_Alpl\_Cjac7:55,489,046\_ENSCJAT00000011946[Callithrix\_jacchus]

MISPFLVLAIGTCLTNSLVPEKEKDPKYWRNQAQETLKYALELQKLNTNVAKNVIMFLGDGMGVSTVTAARILKGQLHHNPGEETRLEMDKFPFVALSKTYNTNAQVPDSAGTATAYLCGVKANEGTVGVSAATERSRCNTTQGNEVTSILRWAKDAGKSVGIVTTTRVNHATPSAAYAHSADRDWYSDNEMPPEALSQGCKDIAYQLMHNIRDIEVIMGGGRKYMYPKNKTDVEYEIDEKARGTRLDGLDLVDIWKNFKPRHKHSHFIWNRTELLALDPYNVDYLLGLFEPGDMQYELNRNNVTDPSLSEMVTVAIQILQKNPRGFFLLVEGGRIDHGHHEGKAKQALHEAVEMDRAIGRAGSMTSLEDTLTVVTADHSHVFTFGGYTPRGNSIFGLAPMLSDTDKKPFTAILYGNGPGYKVVGGERENVSMVDYAHNNYQAQSAVPLRHETHGGEDVAVFSKGPMAHLLHGVHEQNYIPHVMAYAACIGANLDHCAPASSARNLAAGPLLLPLALF