

Supplementary Table 1A

| Name of sequence | Nucleotide sequence (5' to 3')                                                                                            |
|------------------|---------------------------------------------------------------------------------------------------------------------------|
| HIV1_IFC_F       | tcgagcaatttttagggaagatctggccttctacaaggggaagggcaggggaattttctcagagcagaccaa                                                  |
| HIV1_IFC_R       | gatcttggtctgctctgaagaaaattccctggccttccctttaggaaggccagatcttccctaaaaaattgc                                                  |
| HIV1_F           | tcgagcaatttttagggaagatctggccttctacaaggggaagggcaggggaattttctcagagcagaccagaa                                                |
| HIV1_R           | gatcttctggtctgctctgaagaaaattccctggccttccctttaggaaggccagatcttccctaaaaaattgc                                                |
| CCR5_IFC_F       | tcgagcgcctttaaagccaggacggtcaccttgggggtgtgacaagtgtgatcacttgggtgggtgctgtgttgcgtctctccag<br>gaatcatctttaccagatctcaaaaagaaa   |
| CCR5_IFC_R       | gatcttcttttgagatctggtaaagatgattcctgggagagacgcaaacacagccaccaccaagtgatcacactgtcaccacc<br>caaagggtgaccgtcctggcttttaaagcgc    |
| CCR5_WT_F        | tcgagcgcctttaaagccaggacggtcaccttgggggtgtgacaagtgtgatcacttgggtgggtgctgtgttgcgtctctccag<br>gaatcatctttaccagatctcaaaaagaa    |
| CCR5_WT_R        | gatcttcttttgagatctggtaaagatgattcctgggagagacgcaaacacagccaccaccaagtgatcacactgtcaccacc<br>caaagggtgaccgtcctggcttttaaagcgc    |
| CCR5_SSM_F       | tcgagcgcgcgcgcggccaggacggtcaccttgggggtgtgacaagtgtgatcacttgggtgggtgctgtgttgcgtctctcca<br>ggaatcatctttaccagatctcaaaaagaa    |
| CCR5_SSM_R       | gatcttcttttgagatctggtaaagatgattcctgggagagacgcaaacacagccaccaccaagtgatcacactgtcaccacc<br>caaagggtgaccgtcctggcgcgcgcgcgc     |
| CCR5_5_ter_F     | tcgagctaagctttaaagccaggacggtcaccttgggggtgtgacaagtgtgatcacttgggtgggtgctgtgttgcgtctctcc<br>aggaatcatctttaccagatctcaaaaagaa  |
| CCR5_5_ter_R     | gatcttcttttgagatctggtaaagatgattcctgggagagacgcaaacacagccaccaccaagtgatcacactgtcaccacc<br>caaagggtgaccgtcctggcttttaaagcttagc |
| CCR5_3_ter_F     | tcgagcgcctttaaagccaggacggtcaccttgggggtgtgacaagtgtgatcacttgggtgggtgctgtgttgcgtctctccag<br>gaatcatctttaccagatctcaaaaagataaa |
| CCR5_3_ter_R     | gatcttcttttgagatctggtaaagatgattcctgggagagacgcaaacacagccaccaccaagtgatcacactgtcacca<br>cccaaagggtgaccgtcctggcttttaaagcgc    |
| CCR5_WT_PCR_F    | ataactcgaggtttgctttaaagccaggacggtcaccttggg                                                                                |
| CCR5_SS_PCR_F    | ataactcgaggtttgcatcctaaagccaggacggtcaccttggg                                                                              |
| CCR5_IFC_PCR_F   | ataactcgaggtttgcatcctaaagccaggacggtcaccttggg                                                                              |
| CCR5_PCR_R       | ttatggatccccttcttttgagatctgg                                                                                              |
| PEG10_IFC_F      | tcgagcgcgggaaacctccccggccccgctgtagaggaccttcagcgaccgggcccagaaataataagggtcccacaagat<br>gatgcctcatctccacacttgcaagtgtgctca    |
| PEG10_IFC_R      | gatctgagcatcacttgcaagtgtggagatgaggcatcatctgtggggaccttattttctggccccggtcgctgaaggctcccttac<br>agcggggccggggagggttcccgcgc     |
| PEG10_WT_F       | tcgagcgcgggaaacctccccggccccgctgtagaggaccttcagcgaccgggcccagaaataataagggtcccacaagatg<br>atgcctcatctccacacttgcaagtgtgctca    |

|            |                                                                                                                       |
|------------|-----------------------------------------------------------------------------------------------------------------------|
| PEG10_WT_R | gatctgagcatcacttgcaagtgtggagatgaggcatcatctgtggggacctaattatttctggcccggtcgctgaaggccctctac<br>agcggggccgggagtttcccgcg    |
| Ma3_IFC_F  | tcgagctcgggaaaccgggaactgggctgggacaagagccatccaagtccaaggccaagtaggctcgggagaaacaggg<br>caacatttctaccacagga                |
| Ma3_IFC_R  | gatctcctgtggtaggaaatgtgcctgttctcccgagcctactggccttgactgggatggctctgtccaagcccagttcccg<br>ttcccgagc                       |
| Ma3_WT_F   | tcgagctcgggaaaccgggaactgggctgggacaagagccatccaagtccaaggccaagtaggctcgggagaaacagggc<br>aacatttctaccacagga                |
| Ma3_WT_R   | gatctcctgtggtaggaaatgtgcctgttctcccgagcctactggccttgactgggatggctctgtccaagcccagttcccg<br>ttcccgagc                       |
| Ma5_IFC_F  | tcgagcttgggaaaccgaggcaggggctggggccatgagccatccaagccctgggaaacataggctcagaagaccgaag<br>cactcttcccctggcaggcagcagggacatttga |
| Ma5_IFC_R  | gatctcaaatgtccctgctgcctgccagggaaggagtgcttcggtcttctgagcctatgttcccagggtgggatggctcatggc<br>cccagcccctgctcggttccaagc      |
| Ma5_WT_F   | tcgagcttgggaaaccgaggcaggggctggggccatgagccatccaagccctgggaaacataggctcagaagaccgaagc<br>actcttcccctggcaggcagcagggacatttga |
| Ma5_WT_R   | gatctcaaatgtccctgctgcctgccagggaaggagtgcttcggtcttctgagcctatgttcccagggtgggatggctcatggc<br>cccagcccctgctcggttccaagc      |

Supplementary Table 1B - Accessions

|                                    |                     |
|------------------------------------|---------------------|
| <b>Homo_sapiens</b>                | <b>NM_001100168</b> |
| <b>Pan_troglodytes</b>             | <b>NM_001009046</b> |
| <b>Pongo_abelii</b>                | <b>NM_001135497</b> |
| <b>Pan_paniscus</b>                | <b>XM_003818462</b> |
| <b>Gorilla_gorilla_gorilla</b>     | <b>XM_004034017</b> |
| <b>Macaca_mulatta</b>              | <b>NM_001042773</b> |
| <b>Macaca_nemestrina</b>           | <b>NM_001309022</b> |
| <b>Macaca_fascicularis</b>         | <b>XM_005546902</b> |
| <b>Theropithecus_gelada</b>        | <b>XM_025376087</b> |
| <b>Ptilocolobus_tephrosceles</b>   | <b>XM_023231324</b> |
| <b>Colobus_angolensis_palliatu</b> | <b>XM_011939245</b> |
| <b>Rhinopithecus_roxellana</b>     | <b>XM_010374788</b> |
| <b>Rhinopithecus_bieti</b>         | <b>XM_017855753</b> |
| <b>Papio_anubis</b>                | <b>XM_009200976</b> |
| <b>Mandrillus_leucophaeus</b>      | <b>XM_011981068</b> |
| <b>Chlorocebus_sabaeus</b>         | <b>XM_007983952</b> |

|                                        |                     |
|----------------------------------------|---------------------|
| <b>Cercocebus_atys</b>                 | <b>XM_012033360</b> |
| <b>Aotus_nancymae</b>                  | <b>XM_012470795</b> |
| <b>Callithrix_jacchus</b>              | <b>NM_001257216</b> |
| <b>Propithecus_coquereli</b>           | <b>XM_012638782</b> |
| <b>Saimiri_boliviensis_boliviensis</b> | <b>XM_003926266</b> |
| <b>Carlito_syrichta</b>                | <b>XM_008071218</b> |
| <b>Cebus_capucinus_imitator</b>        | <b>XM_017521787</b> |
| <b>Microcebus_murinus</b>              | <b>XM_012770304</b> |
| <b>Otolemur_garnettii</b>              | <b>XM_003794523</b> |
| Odocoileus_virginianus_texanus         | XM_020916150        |
| Bos_taurus                             | NM_001011672        |
| Sus_scrofa                             | XM_013981569        |
| Camelus_ferus                          | XM_006173924        |
| Camelus_dromedarius                    | XM_010997075        |
| Camelus_bactrianus                     | XM_010967349        |
| Galeopterus_variegatus                 | XM_008582128        |
| Callorhinus_ursinus                    | XM_025884850        |
| Manis_javanica                         | XM_017666109        |
| Bubalus_bubalis                        | XM_006071554        |
| Bos_indicus                            | XM_019985017        |
| Bison_bison_bison                      | XM_010862398        |
| Bos_mutus                              | XM_005900894        |
| Pantholops_hodgsonii                   | XM_005955139        |
| Balaenoptera_acutorostrata_scammoni    | XM_007168860        |
| Vicugna_pacos                          | XM_006200721        |
| Physeter_catodon                       | XM_024123986        |
| Odobenus_rosmarus_divergens            | XM_004399154        |
| Neomonachus_schauinslandi              | XM_021683054        |
| Marmota_marmota_marmota                | XM_015489371        |
| Ictidomys_tridecemlineatus             | XM_005332915        |
| Urocitellus_parryi                     | XM_026389897        |
| Rhinolophus_sinicus                    | XM_019723704        |

|                                             |              |
|---------------------------------------------|--------------|
| Capra_hircus                                | XM_005696038 |
| Pteropus_alecto                             | XM_006914865 |
| Pteropus_vampyrus                           | XM_011357326 |
| Leptonychotes_weddellii                     | XM_006750912 |
| Hipposideros_armiger                        | XM_019630405 |
| Ailuropoda_melanoleuca                      | XM_011222796 |
| Ursus_arctos_horribilis                     | XM_026500667 |
| Ursus_maritimus                             | XM_008703880 |
| Myotis_davidii                              | XM_006759633 |
| Ceratotherium_simum_simum                   | XM_014791360 |
| Castor_canadensis                           | XM_020179558 |
| Loxodonta_africana                          | NM_001280878 |
| Canis_lupus_familiaris                      | NM_001012342 |
| Jaculus_jaculus                             | XM_004662148 |
| Ovis_aries_musimon                          | XM_012114423 |
| Ovis_aries                                  | XM_004018512 |
| Canis_lupus_dingo                           | XM_025458267 |
| Vulpes_vulpes                               | XM_025989177 |
| Myotis_brandtii                             | XM_005877071 |
| Lipotes_vexillifer                          | XM_007470245 |
| Orcinus_orca                                | XM_004283850 |
| Equus_asinus                                | XM_014852419 |
| Orycteropus_afer_afer                       | XM_007951744 |
| Tursiops_truncatus                          | XM_019946955 |
| Neophocaena_asiaeorientalis_asiaeorientalis | XM_024751416 |
| Peromyscus_maniculatus_bairdii              | XM_006990778 |
| Eptesicus_fuscus                            | XM_008154223 |
| Lagenorhynchus_obliquidens                  | XM_027096912 |
| Trichechus_manatus_latirostris              | XM_004368460 |
| Mus_caroli                                  | XM_021172775 |
| Oryctolagus_cuniculus                       | NM_001171125 |
| Mus_musculus                                | NM_009917    |

|                        |              |
|------------------------|--------------|
| Delphinapterus_leucas  | XM_022573383 |
| Mus_pahari             | XM_021207422 |
| Rattus_norvegicus      | NM_053960    |
| Rousettus_aegyptiacus  | XM_016141360 |
| Enhydra_lutris_kenyoni | XM_022498036 |
| Nannospalax_galili     | XM_008826842 |
| Equus_caballus         | NM_001091534 |
| Equus_przewalskii      | XM_008543835 |
| Cricetulus_griseus     | XM_007621398 |
| Panthera_pardus        | XM_019416563 |
| Sorex_araneus          | XM_004614518 |
| Acinonyx_jubatus       | XM_015065528 |
| Felis_catus            | XM_006928652 |
| Meriones_unguiculatus  | XM_021664795 |
| Mustela_putorius_furo  | XM_013060675 |