

Supplementary Table 6

| ortholog | Species_<br>chromosome | Intact/Pseud | Family<br>Subfamily | HORDE<br>name | name in<br>Trask et<br>al., 1998 | Source sequence           | Coordinates                   |
|----------|------------------------|--------------|---------------------|---------------|----------------------------------|---------------------------|-------------------------------|
| A        | MMU_7                  | Intact       | 4F                  |               |                                  | CH250-15D24 (AC150715.2)  | 146333-145401                 |
| A        | PAB_15                 | Pseudogene   | 4F                  |               |                                  | CH253-41C18 (AC188481.3)  | 107401-108338                 |
| A        | GGO_15                 | Pseudogene   | 4F                  |               |                                  | CH255-96P10 (AC173434.2)  | 126468-127405                 |
| B        | MMU_7                  | Intact       | 4F                  |               |                                  | CH250-15D24 (AC150715.2)  | 116560-115622                 |
| B        | PAB_15                 | Pseudogene   | 4F                  |               |                                  | CH253-41C18 (AC188481.3)  | 134461-135432                 |
| B        | GGO_15                 | Pseudogene   | 4F                  |               |                                  | CH255-96P10 (AC173434.2)  | 152403-153374                 |
| C        | MMU_7                  | Intact       | 4F                  |               |                                  | CH250-15D24 (AC150715.2)  | 100815-99877                  |
| C        | PAB_15                 | Pseudogene   | 4F                  |               |                                  | CH253-41C18 (AC188481.3)  | 146532-147452                 |
| C        | GGO_15                 | Pseudogene   | 4F                  |               |                                  | CH255-96P10 (AC173434.2)  | 163301-164238                 |
| D        | MMU_7                  | Intact       | 4F                  |               |                                  | CH250-15D24 (AC150715.2)  | 91526-90588                   |
| D        | PAB_15                 | Pseudogene   | 4F                  |               |                                  | CH253-41C18 (AC188481.3)  | 157752-158689                 |
| D        | GGO_15                 | Pseudogene   | 4F                  |               |                                  | CH255-96P10 (AC173434.2)  | 174934-175868                 |
| D        | PTR_15                 | Intact       | 4F                  |               |                                  | CH251-237F19 (AC186245.2) | 66527-67465                   |
| D        | HSA_15                 | Intact       | 4F                  | OR4F6         |                                  | hg18                      | chr15:100,163,446-100,164,384 |
| E        | MMU_7                  | Intact       | 4F                  |               |                                  | CH250-15D24 (AC150715.2)  | 79021-78083                   |
| E        | PAB_15                 | Pseudogene   | 4F                  |               |                                  | CH253-41C18 (AC188481.3)  | 170179-171115                 |
| E        | PTR_15                 | Intact       | 4F                  |               |                                  | CH251-237F19 (AC186245.2) | 79029-79967                   |
| E        | HSA_15                 | Intact       | 4F                  | OR4F15        |                                  | hg18                      | chr15:100,175,913-100,176,851 |
| F        | MMU_7                  | Intact       | 4F                  |               |                                  | CH250-15D24 (AC150715.2)  | 68281-67364                   |
| F        | PAB_15                 | Pseudogene   | 4F                  |               |                                  | CH253-41C18 (AC188481.3)  | 180218-180967                 |
| F        | PTR_15                 | Intact       | 4F                  |               |                                  | CH251-237F19 (AC186245.2) | 89574-90512                   |
| F        | HSA_15                 | Pseudogene   | 4F                  | OR4F14P       |                                  | hg18                      | chr15:100,186,467-100,187,405 |
| G        | MMU_7                  | Intact       | 4F                  |               |                                  | CH250-15D24 (AC150715.2)  | 45781-44843                   |
| G        | PTR_15                 | Pseudogene   | 4F                  |               |                                  | CH251-237F19 (AC186245.2) | 109158-110129                 |
| G        | HSA_15                 | Pseudogene   | 4F                  | OR4F13P       |                                  | hg18                      | chr15:100,206,371-100,207,310 |
| H        | MMU_7                  | Intact       | 4F                  |               |                                  | CH250-15D24 (AC150715.2)  | 20087-19149                   |
| H        | PTR_15                 | Pseudogene   | 4F                  |               |                                  | CH251-237F19 (AC186245.2) | 135635-136569                 |
| H        | PTR_4                  | Pseudogene   | 4F                  |               |                                  | CH251-35E6 (AC150448.2)   | 71955-72889                   |
| H        | HSA_15                 | Pseudogene   | 4F                  | OR4F28P       |                                  | hg18                      | chr15:100,233,690-100,234,627 |
| I        | MMU_7                  | Pseudogene   | 4F                  |               |                                  | CH250-483J10 (AC149242.2) | 90226-91130                   |
| I        | PAB_15                 | Intact       | 4F                  |               |                                  | CH253-150K13 (AC183330.3) | 42340-41423                   |
| I        | GGO_4                  | Pseudogene   | 4F                  |               |                                  | EU685271                  |                               |
| I        | PTR_4                  | Pseudogene   | 4F                  |               |                                  | CH251-35E6 (AC150448.2)   | 123647-124563                 |
| I        | HSA_15                 | Intact       | 4F                  | OR4F4         | OR-A                             | hg18                      | chr15:100,279,868-100,280,785 |
| J        | MMU_7                  | Intact       | 4G                  |               |                                  | CH250-483J10 (AC149242.2) | 84351-85289                   |
| J        | PAB_15                 | Pseudogene*  | 4G                  |               |                                  | CH253-150K13 (AC183330.3) | 48155-47215                   |
| J        | GGO_4                  | Intact       | 4G                  |               |                                  | EU685272                  |                               |
| J        | PTR_4                  | Intact       | 4G                  |               |                                  | CH251-35E6 (AC150448.2)   | 130600-131538                 |
| J        | HSA_15                 | Pseudogene*  | 4G                  | OR4G2P        | OR-B                             | hg18                      | chr15:100,284,495-100,285,433 |
| K        | MMU_7                  | Pseudogene   | 4G                  |               |                                  | CH250-483J10 (AC149242.2) | 72392-73305                   |
| K        | PAB_15                 | Pseudogene   | 4G                  |               |                                  | CH253-150K13 (AC183330.3) | 58386-57468                   |
| K        | GGO_4                  | Pseudogene   | 4G                  |               |                                  | EU685273                  |                               |
| K        | PTR_4                  | Pseudogene   | 4G                  |               |                                  | CH251-35E6 (AC150448.2)   | 141112-142026                 |
| K        | HSA_15                 | Pseudogene   | 4G                  | OR4G6P        | OR-C                             | hg18                      | chr15:100,295,305-100,296,219 |
| L        | MMU_7                  | Intact       | 4G                  |               |                                  | CH250-483J10 (AC149242.2) | 61250-62185                   |
| L        | PAB_15                 | Intact       | 4G                  |               |                                  | CH253-150K13 (AC183330.3) | 73317-72382                   |
| L        | PTR_4                  | Intact       | 4G                  |               |                                  | CH251-35E6 (AC150448.2)   | 154258-155193                 |
| M        | MMU_7                  | Intact       | 4G                  |               |                                  | CH250-483J10 (AC149242.2) | 47839-48753                   |
| M        | PAB_15                 | Pseudogene   | 4G                  |               |                                  | CH253-150K13 (AC183330.3) | 86799-85864                   |
| M        | PTR_4                  | Pseudogene   | 4K                  |               |                                  | CH251-549L23 (AC183669.3) | 78268-79428                   |
| N        | MMU_7                  | Intact       | 4K                  |               |                                  | CH250-483J10 (AC149242.2) | 29976-30899                   |
| N        | PAB_15                 | Intact       | 4K                  |               |                                  | CH253-150K13 (AC183330.3) | 97976-97062                   |
| N        | PTR_4                  | Intact       | 4K                  |               |                                  | CH251-549L23 (AC183669.3) | 56197-57111                   |
| O        | MMU_7                  | Pseudogene   | 4                   |               |                                  | CH250-246C20 (AC148620.2) | 153154-153992                 |
| O        | PAB_15                 | Pseudogene   | 4                   |               |                                  | CH253-150K13 (AC183330.3) | 112165-111293                 |
| O        | PTR_4                  | Pseudogene   | 4                   |               |                                  | CH251-549L23 (AC183669.3) | 38794-39664                   |
| P        | MMU_7                  | Intact       | 4F                  |               |                                  | CH250-246C20 (AC148620.2) | 134658-133720                 |
| P        | PAB_15                 | Intact       | 4F                  |               |                                  | CH253-150K13 (AC183330.3) | 130731-131669                 |
| P        | PTR_4                  | Intact       | 4F                  |               |                                  | CH251-549L23 (AC183669.3) | 14670-15608                   |
| Q        | MMU_7                  | Intact       | 4K                  |               |                                  | CH250-246C20 (AC148620.2) | 109782-110654                 |
| Q        | PAB_15                 | Intact       | 4K                  |               |                                  | CH253-150K13 (AC183330.3) | 155864-154953                 |
| R        | MMU_7                  | Pseudogene   | 4                   |               |                                  | CH250-246C20 (AC148620.2) | 94787-93847                   |
| R        | PAB_15                 | Pseudogene   | 4F                  |               |                                  | CH253-150K13 (AC183330.3) | 174135-175070                 |

|   |        |            |    |       |                           |                             |
|---|--------|------------|----|-------|---------------------------|-----------------------------|
| S | MMU_7  | Intact     | 4K |       | CH250-246C20 (AC148620.2) | 80533-81471                 |
| S | PAB_15 | Pseudogene | 4K |       | CH253-150K13 (AC183330.3) | 198792-197854               |
| T | MMU_7  | Pseudogene | 4  |       | CH250-246C20 (AC148620.2) | 45993-46931                 |
| U | MMU_7  | Intact     | 4N |       | CH250-246C20 (AC148620.2) | 30005-30931                 |
| U | HSA_14 | Intact     | 4N | OR4N5 | hg18                      | chr14:19,681,735-19,682,661 |

\*Some alleles are Intact