## \T<u>tcCcg</u>AGTgGccAAAgGgaT<mark>C</mark>aGaCTgTAAATCTgaCgTcataGActTCGaAgGTTCGAATCCtt0 CCATAGCTCAGCTGGGAG.AGCGCCTGCT......TTGCACGCAGGAGGTCAGGAGTTCGATCCTCCTTGGCTCCACCA CCATAGCTCAGCTGGGAG.AGCGCCTGCT.....TTGCACGCAGGAGGTCAGGAGTTCGATCCTCCTTGGCTCCACCA CH2706 Undet NNN CH4634 Undet NNN GCCATAGCTCAGCTGGGAG.AGCGCCTGCT.....TTGCACGCAGGAGGTCAGGAGTTCGATCCTCCTTGGCTCCACCA GGCCATAGCTCAGCTGGGAG.AGCGCCTGCT.....TTGCACGCAGGAGGTCAGGAGTTCGATCCTCCTTGGCTCCACCA GGCCATAGCTCAGCTGGGAG.AGCGCCTGCT.....TTGCACGCAGGAGGTCAGGAGTTCGATCCTCCTTGGCTCCACCA ESP068 Undet NNN F1659 Undet NNN F1801 Undet NNN GGGGCCATAGCTCAGCTGGGAG.AGCGCCTGCT.....TTGCACGCAGGAGGTCAGGAGTTCGATCCTCCTTGGCTCCACCA F1957 Undet NNN GGAGCGGTAGTTCAGCTGGTTAGAATGCTGGCC......TGTCACGCCGGAGGTCGCGGGGTCGCGTCCGTTCCGATCCGCC CH4443 Undet NNN CF609 Iso3 Undet NNN CH2623 Undet NNN CH2672 Undet NNN CH2706 Undet NNN CH2747 Undet NNN CH2875 Undet NNN CH3325 Undet NNN CH4520 Undet NNN CH4634 Undet NNN CH4785 Undet NNN CH4990 Undet NNN CH5551 Undet NNN ESP024 Undet NNN ESP058 Undet NNN ESP068 Undet NNN ESP091 Undet NNN F1659 Undet NNN F1752 Undet NNN F1757 Undet NNN F1760 Undet NNN F1763 Undet NNN F1789 Undet NNN F1801 Undet NNN F1812 Undet NNN F1821 Undet NNN F1823 Undet NNN F1957 Undet NNN F2017 Undet NNN F2035 Undet NNN F2054 Undet NNN F2119 Undet NNN F2137 Undet NNN F2148 Undet NNN F2165 Undet NNN F2166 Undet NNN F2176 Undet NNN F2234 Undet NNN M70604538 Undet NNN M70608424 Undet NNN M70641593 Undet NNN M70647319 Undet NNN M70649365 Undet NNN M70656672 Undet NNN MHH0426 Undet NNN MHH16208 Undet NNN MHH16427 Undet NNN MHH16530 Undet NNN MHH16563 Undet NNN MS1 Undet NNN PSAE1742 Undet NNN PSAE1975 Undet NNN

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 $\overline{X}$  non conserved  $\overline{X} \geq 50\%$  conserved