

Product datasheet for **RN208573**

Olr1704 (NM_001000271) Rat Untagged Clone

Product data:

Product Type: Expression Plasmids

Product Name: Olr1704 (NM_001000271) Rat Untagged Clone

Tag: Tag Free

Symbol: Olr1704

Synonyms: ratchr20-783080-784018_ORF

Mammalian Cell Selection: Neomycin

Vector: pCMV6-Entry (PS100001)

E. coli Selection: Kanamycin (25 ug/mL)

Fully Sequenced ORF: >RN208573 representing NM_001000271
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTGTGAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGATTTGGAAAAATATAACCACAATGAGTGGATTTCTCCTCATGGGTTCTCTGACAACCATGAGCTGC
 AGATCTTACAGGCTTTGCTCTTCTTGGTGACATACCTATTGGGCTCAGCAGGTAACCTCATCATTATCAC
 CATCACAACACTGGACCCTCAGCTCCAGTCTCAATGTATTACTTTCTGAAGCACCTTTCCATTCTGGAC
 CTCTCATCACTCTCTGTACAGTTCCTCAGTATGTTGACAGTTCCTGGCACATAGTGGCTACATTTTCAT
 ATGGACAGTGCATGCTGCAGGTTTTTTCTTCACAGCTTTGGCCTGGAGTGAGATGGCCATTCTCACAGT
 GATGTCCTATGACCGCTACGTGGCCATCTGCCTCCCACTGCACTATGAGGTCATCATGGGTCGAGAAAG
 TGCACTTGGGCTGTGGCAGCTGTGTGGTTAAGTGAAGCATCTCAGGAACATTATACACAGTAAGTATAC
 TCTCCATCAGATTCTGTGGGGACAAAATAATTCACCAAGTCTTCTGTGATATCCCCAGTTGCTGAAGCT
 CTCCTGCTCTAATGATCACCTTGTAAATGGGAGTGGCTGATTCCTGTGCGCAATGGCCTTTGCCTGC
 TTTATTGGGATTGTCATCTCCTATGTCCACATATTCTCCACAGTTCTCAGGATGCCCTCTGCTGACAGCA
 GGTCTAAGGTCTTCTACTTGCCTGCCCCACCTTTTGTGTCTCATTGTTTCTTCTACAGGCTTCTG
 TGCATATCTAAACCAACCTCAGACTCTCAACTGCTTTAGAGTTCTTATTCTCCATCTTTTACACAGTA
 CTACCTCAACTCTCAACCCTCTTATTACAGTCTGAGAAATGAGACCATAAAGAGTGTTGTAAGGAAGT
 TACTCTTAGTAGAAAATTTGCTTT**GTAG**

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI

ACCN: NM_001000271


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Insert Size:	939 bp
OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
Components:	The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).
Reconstitution Method:	1. Centrifuge at 5,000xg for 5min. 2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA. 3. Close the tube and incubate for 10 minutes at room temperature. 4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom. 5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.
RefSeq:	<u>NM_001000271.1, NP_001000271.1</u>
RefSeq Size:	939 bp
RefSeq ORF:	939 bp
Locus ID:	294155
Cytogenetics:	20p12
Gene Summary:	Olfactory receptors interact with odorant molecules in the nose, to initiate a neuronal response that triggers the perception of a smell. The olfactory receptor proteins are members of a large family of G-protein-coupled receptors (GPCR) arising from single coding-exon genes. Olfactory receptors share a 7-transmembrane domain structure with many neurotransmitter and hormone receptors and are responsible for the recognition and G protein-mediated transduction of odorant signals. The olfactory receptor gene family is the largest in the genome. The nomenclature assigned to the olfactory receptor genes and proteins for this organism is independent of other organisms. [provided by RefSeq, Jul 2008]