

Product datasheet for **MR214124**

Olfr1282 (NM_146907) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Olfr1282 (NM_146907) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Olfr1282
Synonyms:	MOR248-2; MOR248-16; Olfr1557
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR214124 representing NM_146907 Red =Cloning site Blue =ORF Green =Tags(s)

TTTGTAAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCCGGATCGCC

ATGGAAGACTCTAATCGTACTGTGCTCTGAGTTTATTTTCAGGGACTGTGTTCTCAAGGCAACTTG
 AGATCTTCCTCTTACTACCATTTTCCATCCTCTACCTGATGGCTGTGGTAGGCAACCTGTTGTTGTGAT
 ATTGATCATCATTGATCATCATCTCCATTCTCCATGTAATCTTGTAGCCAATCTATCATTTATTGAC
 TTCTGCCTTTCTTCAGTAACCAACCCCAAACTGACCATAGATCTCCTAAAAGAAAATAAAACCATTTCT
 TTGTAGGGTATATGAGGCAGATCGTCTGTGTGCACTTCTTGCAGGAGGTGAGATGGTACTTCTTGTAAAC
 AATGGCCTATGACCGGTATGTGGCCATCTGCAGGCCACTCCACTACAGCAGCATCATGGACAGACAGAAG
 TGCATCTGGCTCGTTGTGATATCATGGATTGTTGGATTGTGTCATGCCATTAGTCAGATGCTCTTGATT
 TGGATCTACCTTTCTGTGGACCTAGAGTGATAGACAGCTTTTCTGTGATATTCCTTTGGTGATGAAAT
 AGCCTGCATGAATACTGATACTCTGAAATCCTAATAAATGCTGACAGTGGCATTTTAGCAACAATTGT
 TTCATCCTCTTGCTTATATCTTATACTTACATTCTATTAAGTGTCAACATCGCTCTAAAGATGGCTCAT
 CAAAGGCCCTATCTACATGCACATCCCATATCATAGTGGTTCTGCTGTTCTTTGGGCCCATTTTTAT
 CTATCTGTGGCCAGTCAGCATCACCTGGGTTGACAAGTTTCTTGCTGTATTTTACTCAGTCATCACACCT
 CTCCTTAATCCAGCCATCTACACACTGAGAAATAAAGATATTAATAATGCCATAAAGAACTCATAAGTC
 ACAAG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA


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Protein Sequence: >MR214124 representing NM_146907
 Red=Cloning site Green=Tags(s)

MEDSNRTVSSEFIFQGLCSSRQLEIFLLLPFSILYLMVAVGNLFVVILIIIDHHLHSPMYFLLANLSFID
 FCLSSVTTPKLTIDLLKENKTISFVGMRQIVCVHFFAGGEMVLLVTMAYDRYVAICRPLHYSSIMDRQK
 CIWL VVISWIVGFVHAISQMLLILDLPFCGPRVIDSFCDIPLVMKLACMNTDTLEILINADSGILATTC
 FILLISYTYILLTVQHRKDGSSKALSTCTSHIIVLLFFGPIIFIYLWPVSITWVDKFLAVFYSVITP
 LLNPAIYTLRNKDIKNAIKKLISHK

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mm9085_a06.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_146907

ORF Size: 915 bp

OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_146907.2](#), [NP_667118.2](#)

RefSeq Size: 918 bp

RefSeq ORF: 918 bp

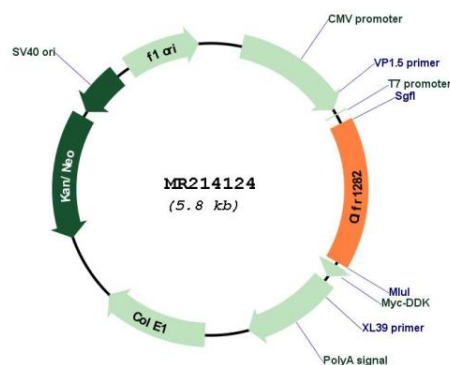
Locus ID: 258909

Cytogenetics: 2 E3

MW: 34.7 kDa

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]

Product images:



Circular map for MR214124