

Product datasheet for **MG216964**

Olf1002 (NM_146573) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	TurboGFP
Symbol:	Olf1002
Synonyms:	MOR175-2
Mammalian Cell	Neomycin
Selection:	
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)

ORF Nucleotide Sequence: >MG216964 representing NM_146573
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGATGCACAGAAATCAAACCTGTTGTGACTGAGTTCTTCTTCACTGGATTAACCTCCTCCTCCATCTCC
AAATTGTCCTCTTCTGACATTTCTCTGTGTTTATCTCGCAACTCTTCTGGGGAACCTGGGAATGATCAT
TCTTATTCACCAGGACACTCGACTCCACATCCCATGTACTTTTTCTAAGCCACTTGTCTTTGTGGAT
GCCTGCTCCTCTTCTGTCAAGTCCCTAAGATGTTGTCTGACATCTTTGTGGATAAAAAGGTGATCTCCT
TCTTAGGTTGTGCTATCCAGTTTTGTTTATTCAGCCAGTTTGTAGTGACAGAATGTTTCTCCTGGCCTC
CATGGCTTATGATAGATATGTTGCCATCTGTAAGCCTTTGCTGTACTCTCATCATGTCCAGCGAGTC
TGTGTACAGTTAGTGATTGGCCCTTACAGCATAGGCCTTATAAGCACTGTGGTCCATACTACTTCTGCAT
TTATTCTTCATACTGTGGTCCAAATCTCATCAATCACTTTTTCTGTGACCTTCTCCTGTCCTCTCACT
GGCATGTGCAGATACTCAGATGAATAAACATTTGCTTTTCATCATGGCTGGGATCCTAGGTGATTCAGT
GGTATAATCATATTGGTGCCTATGTTTACATTGCCATCACCATCCTAAAGATCAATTCGTGATGATGGGA
GGCGCAAAGCCTTCTCCACCTGCTCTTACACCTGACAGCAGTCTCTATTCTTACGGGACTCTCTTCTT
TATCTATGTACGTCCAAGCTCCAGCTTCTCTCTGGATATCAATAAAGTTGTGTCCTACTATTTTACTGCT
GTAATCCCTATGTTGAACCCATTCTTTATAGCTTGAGAAATAAGGAAGTCAAAGATGCATTAATCAGGA
CATTTGAAAAGAAGTTTTGCTACAGCTTGAAGATAAAATATTA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



Protein Sequence: >MG216964 representing NM_146573
 Red=Cloning site Green=Tags(s)

MMHRNQTVVTEFFFTGLTSSFHLQIVLFLTFLCVYLATLLGNLGMIIILIHQDTRLHIPMYFFLSHLSFVD
 ACSSSVISPKMLSDIFVDKKVISFLGCAIQFCLFSQFVVTECFLLASMAYDRYVAICKPLLYTLIMSQRV
 CVQLVIGPYSIGLISTVVHTTSAFILPYCGPNLINHFFCDLLPVLSLACADTQMNKHLLEFIMAGILGVFS
 GIIILVSYVYIAITILKINSADGRRKAFSTCSSHLTAVSILYGTLFFIYVRPSSSFLDINKVVSFLFYTA
 VIPMLNPFYISLRNKEVKDALIRTFEKKFCYSLQDKIL

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_146573

ORF Size: 954 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_146573.2](#), [NP_666784.2](#)

RefSeq Size: 957 bp

RefSeq ORF: 957 bp

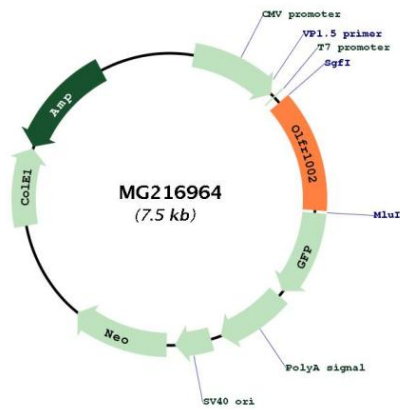
Locus ID: 258566

UniProt ID: [Q8VFK2](#)

Cytogenetics: 2 D

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 MG216964