

Product datasheet for **MG214558**

Olfr175-ps1 (NM_147002) Mouse Tagged ORF Clone

Product data:

| | |
|----------------------------------|-------------------------------|
| Product Type: | Expression Plasmids |
| Tag: | TurboGFP |
| Symbol: | Olfr175-ps1 |
| Synonyms: | MOR184-1; MOR184-10P; Olfr174 |
| Mammalian Cell Selection: | Neomycin |
| Vector: | pCMV6-AC-GFP (PS100010) |
| E. coli Selection: | Ampicillin (100 ug/mL) |

ORF Nucleotide Sequence: >MG214558 representing NM_147002
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**GCGATCGCC**

ATGACTGAGGACAACACTCCTTGACAACAGAGTTCATCCTCATAGGATTCTCAGACCACCCAGACTTAA
AGATACTTCTATTCTGGTGTATCTACCATCTATCTGGTCACCATGGTGGGAATCTTGGGCTGGTGGC
CTTGATCTACATGGAGCCTCGTCTCCACACCCATGTACATCTTCTGGGCAACCTGGCTCATGGAT
TCCTGTTGCTCCTGTGCCATCACTCCTAAGATGCTAGAGAACTTTTTCTGTGAACAGAAGGATTTCTC
TCTATGAATGCATGGCACAGTTCTATTTTCTGTCTTGGCTGAAACTGCAGACTGCTTCTTCTGGCAGC
CATGGCCTATGACCGCTATGTGGCCATATGCAACCCTCTGCAGTACCACACCATGATGTCCAAGAAGCTC
TGCCCTCAAATGACCACAGGAGCCTACATAGCAGGAAACCTGCATTCCATGATTCACATAGGTTCTTGT
TCAGGTTAATTTTCTGCAGGTCTCATGTGATCAAGCACTTCTTTTGTGATGCTCCTCCCCTATACAGACT
CTCATGTGTGACCCTTATATCAATGAACTGATGATACTCATCTTTTCTGGTTCAGTTCAAACCTTTTCC
ATTATTATAGTCTTGATTTCTATTCTGCATCCTTTTACTATATTACAATGAAGTCCAGAGAGGGAA
GAAGCAAAGCCTTACTACTTGTGCATCCCCTTTCTGTCTGTGTCATATTCTATGGGTCTCTTCTCTA
CACATATATCGACCAAGTCTATCAACGAAGGAAATGAAGACATACCTGTTGCTATTTTTTATACTCTG
GTAATTCCTTTATTAACCCCTTTATTTATAGTCTGAGAAATAAGGAAGTAATTAATGCAATTAAGAA
CCATGAACAAAGGA

ACCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



Protein Sequence: >MG214558 representing NM_147002
Red=Cloning site Green=Tags(s)

MTEDNYSLTTEFILIGFSDHPDLKILLFLVLSTIYLVTVMGNLGLVALIYMEPRLHTPMYIFLGNLALMD
 SCCSCAITPKMLENFFSVNRRISLYECMAQFYFLCLAETADCFLLAAMAYDRYVAICNPLQYHTMMSKLL
 CLQMTTGAYIAGNLHSMIHIGFLFRLIFCRSHVIKHFCDVLPYRLSCVDPYINELMILIFSGSVQTF
 IIVLISYFCILFTIFTMKSREGRSKALSTCASHFLSVSIFYGSLLYTYIRPSSINEGNEDIPVAIFYTL
 VIPLLPFIYSLRNKEVINAIKRTMKNKG

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



ACCN: NM_147002

ORF Size: 924 bp

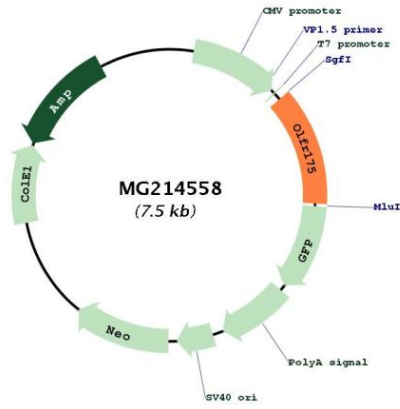
OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially 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: | <ol style="list-style-type: none">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_147002.2 , NP_667213.2 |
| RefSeq Size: | 1029 bp |
| RefSeq ORF: | 927 bp |
| Locus ID: | 259004 |
| Cytogenetics: | 16 C1.2 |
| 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 MG214558