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Product datasheet for MG214339

Olfr225 (NM_001011740) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	TurboGFP
Symbol:	Olfr225
Synonyms:	MOR256-51
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)

ORF Nucleotide Sequence:

>MG214339 representing NM_001011740
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGAGAAGAACAATGAGAGCTCTGGGGAGTTTATTCTCCTGGGCTTCTCTGACCAGCCCCGGCTGGAGA
TGGTCCTCTTTGTTGTCTGTACGGTCTTTTATTTTCTAGCTGTCACAGGCAACTCAGCCATCATCTTCCT
CTCCCTCATGGACCTCCGGCTACACACACCCATGTACTTCTTCCTCAGCAACCTGTCCCTTCTTGACCTC
TGTTACAGCACCAGTAGCATCCCCCAGTTCCAGATTAACCTCTGGGGCCCACGGAAGACCATCAGCTTCG
TAGGATGTGCTGTTCAGCTCTTTGCCTTCCTGTCCGTGGGGGGCATCGAGTGCATTCTCCTGTCAGTTAT
GGCCTACGACCGCTTTGTAGCTGTCTGCAAGCCACTGCATTACCTGACCATCATGCACCCACAGCTGTGC
CTGAAGCTGGCAGCCTTTGCCTGGCTCGGTGGCACAGCCAGCTCGACACTGATGTCCCCACTGACCATGT
CTCTGGGGCGGTGTGGTCATCGCCGTATCAACCACTTTGTGTGCGAGATGCCGGCTATCATCCACATCTC
CTGTGTGGACACAAGCTGGATAGAAGGCCTAATTTTCATCCTGGCCATCCCTATTGTTCTTGTGCCTCTC
ATTATGATCCTGGTCTCCTACGGCTACATTGCTGCCGCCGTCCTGAGGATCAAGTCTACAGCTAGTCGGC
GCAAGGCCTTCAACACCTGCTCGTCACACATGGCGGTGGTGTCTCTTTTCTACAGTAGCATCATCTACAT
GTACATGCAGCCTGGCAATTTGGCAAGCCAGGACCAGGGCAAGTTTCTAACTCTGTTCTACTGCCTGGTG
ACCCCCACGCTAAACCCTTTCATCTACTCTCTGAGAAACAAAGACATGAAGGCGGCCATGTTGAAGGTTC
TGGGAAAAGATAGAAACCTGCTCGACCCGCAGGGCACTGACAGGACCTGGAACTCACCTCACTTGTCCAT
GTGTTTCGGACCCATAGTGAATCATAGTGACAATAAGCCAAAGGTGGCAACGATGTGGTGTCTTGTATCC
CATAGGTCCCAGATCAGTGATGTATATTACTGTCTGCAGGGAAGGGCCTCCATTTTATTCAAGGAGATAG
GACTTCTTACAAAAAAAAACCCCAGCAAACTGACAGAAAAAGACCTGTGGCTTCCTTTTTTGCACAGAGT
GGAGGAAATGATTTATTTACAGCTAACCTGTGATGCTGTTCAGACACAAGAGGAAGGAGGCACCGTC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

View online »

Protein Sequence:

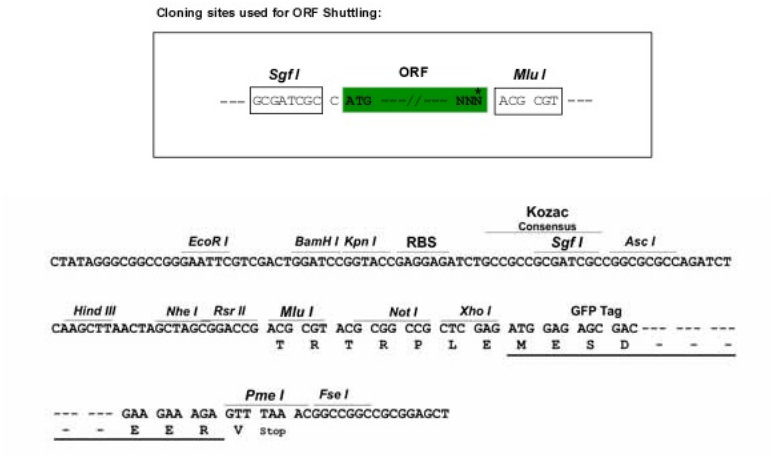
>MG214339 representing NM_001011740
Red=Cloning site Green=Tags(s)

MEKNNESSGEFILLGFSDQPRLEMVLFVVCTVFYFLAVTGNSAIIFLSLMDLRLHTPMYFFLSNLSLLDL
CYSTSSIPQFQINLWGPRKTISFVGCAVQLFAFLSVGGIECILLSVMAYDRFVAVCKPLHYLTIMHPQLC
LKLAAFAWLGGTASSTLMSPLTMSLGRCGHRRINHFVCEMPAIIHISCVDTSWIEGLIFILAIPIVLVPL
IMILVSYGYIAAAVLRIKSTASRRKAFNTCSSHMAVVSLFYSSIIYMYMQPGNLASQDQGKFLTLFYCLV
TPTLNPFIYSLRNKDMKAAMLKVLGKDRNLLDPQGTDRTWNSPHLSMCFGPIVNHSDNKPKVATMWCLVS
HRSQISDVYYCLQGRASILFKEIGLLTKKNPSKLTEKDLWLPFLHRVEEMIYLQLTCDAVQTQEEGGTV

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001011740

ORF Size: 1257 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_001011740.2, NP_001011740.2

RefSeq Size: 1260 bp

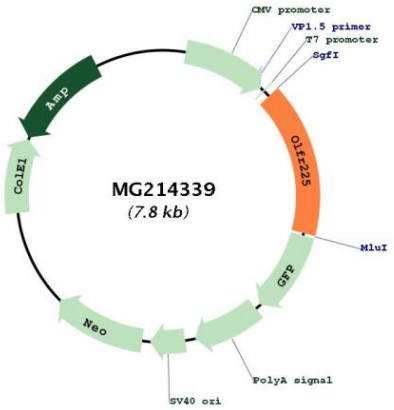
RefSeq ORF: 1260 bp

Locus ID: 257886

Cytogenetics: 11 B1.3

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. There may be a polymorphism in the C-terminus of the encoded protein due to a single nucleotide insertion (rs228650303) found in some mouse strains. The GRCm38 reference genome encodes a protein with a poorly conserved C-terminus that is longer than other olfactory receptor proteins and may not function as an olfactory receptor. [provided by RefSeq, Jun 2015]

Product images:



Circular map for MG214339