

Product datasheet for **RG219576**

OR12D2 (NM_013936) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	OR12D2 (NM_013936) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	OR12D2
Synonyms:	DJ994E9.8; HS6M1-20
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG219576 representing NM_013936 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCTGAATACAACCTCAGTCACCGAATTTCTCCTCTTGGGAGTGACAGACATTCAAGAAGTGCAGCCTT
TTCTCTTCGTGGTTTTCTCACCATCTACTTCATCAGTGTGACTGGGAATGGAGCCGTTCTGATGATTGT
CATCTCCGATCCTAGACTCCATTCCTTATGTATTTCTCCTGGGAAACCTGTCTACCTGGATATCTGT
TACTCTACGGTGACACTGCCAAAATGCTGCAGAACTTTCTCTACACAAAAGCAATTTCTTTCTTGG
GATGCATAAGCCAGCTTCATTTCTCCACTCCCTGGGCAGCACGGAGTCCATGTTGTTCCCGTGATGGC
ATTTGACCTCTCTGTGGCTATCTGCAAGCACTTCGCTACACTGTCATCATGAACCTCAGCTCTGTACC
CAGATGGCCATCACAATCTGGGTCATTGGTTTTTCCATGCCCTGCTGCACTCCGTAATGACTTCTCGCT
TGAAGTCTGTGGTTCCAACCGTATCCATCATTTTCTCTGTGATATTAAGCCATTGCTAAAGCTGGCCTG
TGGGAACACTGAGCTTAATCAGTGGCTACTCAGTACTGTCACGGGACAATTGCCATGGGCCCTTCTTT
CTGACACTTCTCTCCTATTTCTACATTACACTTATCTCTTCTCAAGACCCGTTCTTGTAGCATGCTCT
GTAAGCACTGTCCACTTGTGCCTCCACTTCATGGTAGTATTCTTTCTATGCACCTGTTCTTTTAC
CTATATCCATCCTGCGTTAGAGAGCTTCATGGACCAGGACCGGATTGTTGCCATCATGTACACTGTGGTC
ACTCCTGTACTAAACCCACTGATCTATACTTTGAGGAACAAGGAAGTGAAGGGGGCCTTGGGTAGAGTGA
TCAGAAGGCTT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG219576 representing NM_013936
 Red=Cloning site Green=Tags(s)

MLNTTSVTEFLLLVGVTDIQELQPFLFVVFLTIYFISVTGNGAVLMIVISDPRLHSLMYFFLGNSYLDIC
 YSTVTLPKMLQNFLSTHKAIISFLGCISQLHFFHSLGSTESMLFAVMAFDLSVAICKPLRYTVIMNPQLCT
 QMAITIIWVIGFFHALLHSVMTSRLNFCGSNRIHHFLCDIKPLLLKACGNTELNQWLLSTVTGTIAMGPFF
 LTLLSYFYIITYLFFKTRSCSMCLKALSTCASHFMVVILFYAPVLFTYIHPALESFMDQDRIVAIMYTVV
 TPVLNPLIYTTLRNKEVKGALGRVIRRL

TRTRPLE - GFP Tag - V

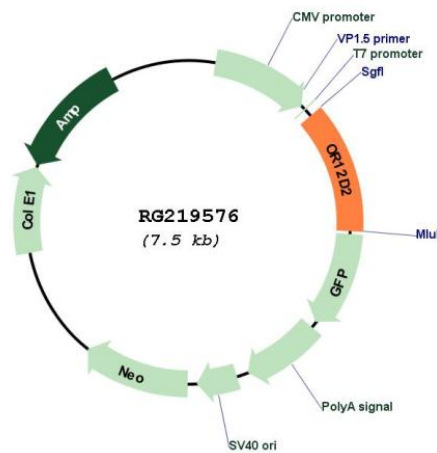
Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



Plasmid Map:



ACCN: NM_013936

ORF Size: 921 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.
RefSeq:	NM_013936.3 , NP_039224.2
RefSeq Size:	924 bp
RefSeq ORF:	924 bp
Locus ID:	26529
UniProt ID:	P58182
Cytogenetics:	6p22.1
Protein Families:	Druggable Genome, Transmembrane
Protein Pathways:	Olfactory transduction
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. This olfactory receptor gene is a segregating pseudogene, where some individuals have an allele that encodes a functional olfactory receptor, while other individuals have an allele encoding a protein that is predicted to be non-functional. [provided by RefSeq, Jun 2015]