

Product datasheet for **RG213458**

OR5J2 (NM_001005492) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	OR5J2 (NM_001005492) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	OR5J2
Synonyms:	OR11-266
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG213458 representing NM_001005492 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCTGATGATAATTTTACAGTTGCTCACTGAGTTTATTCTTTGGGATTGACAGATCATGCTGAACTAA
AAGCTGTGCTTTTGTGGTGTTCCTGGTGATTTACGCCATTACCTTGTGAGGAATCTGGGCATGATCCT
CTTAATCCAAATCACCTCCAACTCCACACACCCATGACTTTTTACTCAGCTGTCTTTCATTTGTGGAT
GCCTGCTATTCATCTGCAATTGCACCCAAAATGCTGGTGAACCTCCTGGTTGTGAAGCAACAATTTCTT
TCTCTGCTTGATGGTACAGCATTGTGTTTCGGAGTGTCATCACCACAGAAGGCTTCTACTGTCAGT
GATGGCCTATGACCGCTATGTGGCATTGTGAGTCCCTTCTTTACACTGTAGCCATGTCTGATAGAAAG
TGTGTGGAGCTTGTACAGGATCATGGATAGGTGGAATAGTTAACACATTAATCCACACAATCAGCTTGA
GGAGACTGTCTTTTGTAGGCTAAATGCTGTCAGCCACTTCTTCTGTGACATTCTTCACTGCTAAAGCT
GTCATGTTCTGACACCTCCATGAATGAGTTGTTGCTGTTAACCTTCTCCGGAGTCATTGCCATGGCCACC
TTCTTGACTGTGATCATTTCTACATCTTATTGCTTTTGTAGCCTAAGGATCCACTCAGCATCAGGCA
GACAGCAAGCCTTCTCCACCTGTGCCTCTCACCTGACTGCTGTGACCATATTCTATGGTACCTTAATCTT
TAGCTACATTAGCCAAGCTCCCAGTATTTTGTGGAACAAGAGAAAGTGGTTTCTATGTTCTATACGCTA
GGGATTCATGTTAAACCTGTTGATACACAGTTTGAGAAACAAGGACGTAAGGAGGCAGTGAAAAGGG
CCATAGAAATGAAACATTTCTCTGT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG213458 representing NM_001005492
 Red=Cloning site Green=Tags(s)

MADDNFTVVTEFILLGLTDHAELKAVLFVVFLVIYAITLLRNLMILLIQITSKLHTPMYFLLSCLSFDV
 ACYSSAIAPKMLVNLVVKATISFSACMVQHLFCGVFITTEGFLLSVMAYDRYVAIVSPLLYTVAMSDRK
 CVELVTGSWIGGIVNTLIHTISLRRLSFCRLNAVSHFFCDIPSLKLSGSDTSMNELLLLTFSGVIAMAT
 FLTVIISYIFIAFASLRHSASGRQQAFSTCASHLTAVTIFYGTLIFSYIQPSSQYFVEQEKVVSMTYTL
 GIPMLNLLIHSLRNKDVKEAVKRAIEMKHFLC

TRTRPLE - GFP Tag - V

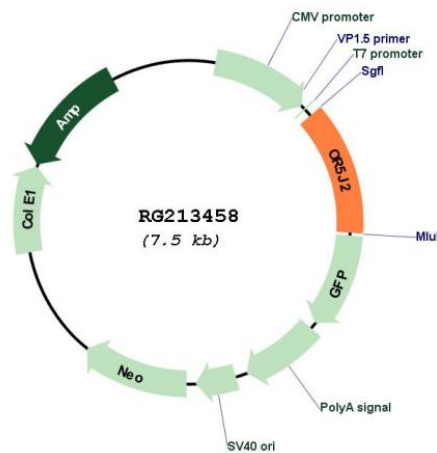
Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



Plasmid Map:



ACCN: NM_001005492

ORF Size: 936 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_001005492.1 , NP_001005492.1
RefSeq Size:	939 bp
RefSeq ORF:	939 bp
Locus ID:	282775
UniProt ID:	Q8NH18
Cytogenetics:	11q12.1
Protein Families:	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. [provided by RefSeq, Jul 2008]