

Product datasheet for **RG220365**

OR11G2 (NM_001005503) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: OR11G2 (NM_001005503) Human Tagged ORF Clone
Tag: TurboGFP
Symbol: OR11G2
Synonyms: OR14-34
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG220365 representing NM_001005503
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCATTTTCTTTCCAAAATGATTTAAATATAAATCTGATTCCCATCTATGTTTGCACCGTCATTGAG
TAATTGCTGGTGTCTTTACAATTCACAGGCACATGAAAATCTTCAACAGCCCCAGCAACTCCAGCACCTT
CACTGGCTTCATCCTCCTGGGCTTCCCTTGCCCCAGGGAGGGGCAGATCCTCCTTTGTGCTTCTCACT
GTTGTTTACCTCCTGACCCTCATGGCAATGGTCCATCATCTGTGCTGTGCACTGGGATCAGAGACTCC
ACGCCCCATGTACATCCTGCTCGCAACTTCTCCTTCTGGAGATATGTTATGTCACCTCCACAGTCCC
CAGCATGCTGGCAACTCCTCCTGACACCAAGATCATCTCGTTCTCTGGCTGCTTCTCCAGTCTAC
TTTTTCTTCTCCTTGGGCTCTACAGAATGCTTTTTCTGGCAGTTATGGCATTGATCGATACCTTGCCA
TCTGTGCGGCTCTACGCTATCCAACATTATGACCAGACGCTCTGTACCAATCTGTGGTCAATTGCTG
GGTACTTGGTTTCATCTGGTTCTTGATTCCATCGTCAACATCTCCAAATGTCTTCTGTGGATCATTAGG
ATTATTGACCACTTCTATGTGACCCAGCTCCTCTTCTAACTCTCACTTGCAAAAAGGCCCTGTGATAG
AGCTTGTCTTTCTGTCTTAAGTCCCTGCTGCTTTATGCTCTTTCTTCTTATTGTGGGGTCCATGCT
TCTGGTGTGAGAGCTGTGTTGAGGGTCCCTTCAGCAGCTGGGAGAAGAAAGGCTTTCTCCACCTGTGGG
TCTCACCTGGCTGTGGTTTCACTGTTCTACGGCTCAGTACTGGTCATGTATGGGAGCCCAACCATTAAGA
ATGAAGCTGGAAGCAGAAGACTGTGACTCTGTTTTATTCTGTTGTTACCCCACTGTTAACCCCTGTGAT
ATATAGTCTTAGGAACAAGATATGAGAAAAGCTCTGAAGAAATTTGGGGAACA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG220365 representing NM_001005503
 Red=Cloning site Green=Tags(s)

MHFLSQNDLNINLIPHLCLHRHSVIAGAFTHRHMKIFNSPSNSSTFTGFILLGFPCPREGQILLFVLFT
 VVYLLTLMGNCSIICAVHWDQRLHAPMYILLANFSFLEICYVTSTVPSMLANFLSDTKIISFSGCFLQFY
 FFFSLGSTECFFLAVMAFDRYLAICRPLRYPTIMTRRLCTNLVNCWVLGFIWFLIPIVNIQSMSFCGSR
 IIDHFLCDPAPLLTLTCKKGPVIELVFSVLSPLPVFMLFLFIVGSYALVVRVAVLRVPSAAGRRAKAFSTCG
 SHLAVVSLFYGSVLVMYGSPPSKNEAGKQKTVTLFYSVVTPLLNPNVIYSLRNKDMRKALKKFWGT

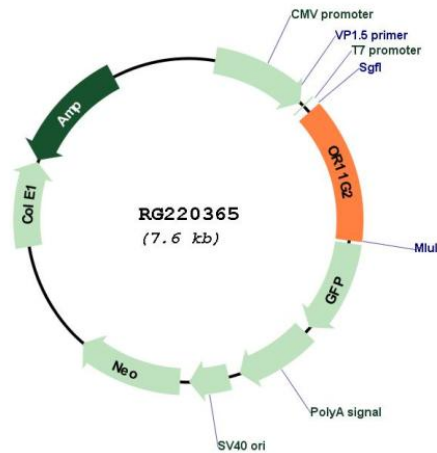
TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001005503

ORF Size: 1035 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_001005503.1 , NP_001005503.1
RefSeq Size:	1038 bp
RefSeq ORF:	936 bp
Locus ID:	390439
UniProt ID:	Q8NGC1
Cytogenetics:	14q11.2
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]