

Product datasheet for **RG216679**

OR2F2 (NM_001004685) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	OR2F2 (NM_001004685) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	OR2F2
Synonyms:	OR7-1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG216679 representing NM_001004685 Red=Cloning site Blue=ORF Green=Tags(s)

TTTGTGAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGCATCGCC**

ATGGAAATAGATAACCAGACGTGGGTGAGAGAATTTATTCTCCTTGGCTTATCCAGTGACTGGTGCACTC
AGATATCCCTGTTTTCCCTGTTCTTGGTCACATACCTCATGACAGTGCTGGGGAAGTGTCTATTGTCTC
TCTGATCAGACTGGACAGCCGACTCCACTCCCATGTATTTCTTCTCACCAACCTCTCCCTTGTGCGAT
GTCTCCTATGCCACAAGCGTAGTCCCCAGCTGCTGGCACATTTTCTTGCAGAACATAAAGCCATCCCAT
TCCAGAGCTGTGCAGCCAGTTATTTTCTCCCTGGCCTTGGGTGGGATTGAGTTTGTCTCTCTGGCAGT
GATGGCCTATGACCGCCATGTGGCTGTGTCTGACCGCCTGCGATACTCGGCCATCATGCATGGAGGGCTG
TGTGCTAGGTTGGCCATCACATCCTGGGTCACTGGCTCCATCAACTCTCTTGTGCAGACTGCTATACCT
TTCAGTGTCCCATGTGCACTAACAAGTTTATTGATCACATATCCTGTGAAGTCTAGCTGTGGTCAGGCT
GGCTTGTGTGGACACCTCCTCCAATGAGGCTGCCATCATGGTGTCTAGCATTGTTCTTCTGATGACACCT
TTCTGCCTGGTTCTGTTGTCTACATCCGGATCATCTCCACCATCCTAAAGATCCAGTCCAGAGAAGGAA
GAAAGAAAGCCTTCCACACGTGTGCCTCTACCTCACGGTGGTTGCCCTGTGCTACGGCACAAAGATTTT
CACTTACATCCAGCCCCACTCTGGTCCCTCAGTCTTCAAGAGAAGCTGATCTCTGTCTTCTATGCCATT
GTTATGCCTCTGCTGAACCCTGTGATTTATAGTCTAAGGAATAAAGAGGTGAAGGGGGCTGGCATAAAC
TATTAGAGAAATTCTCTGGGTTAACATCCAAGCTGGGAAGT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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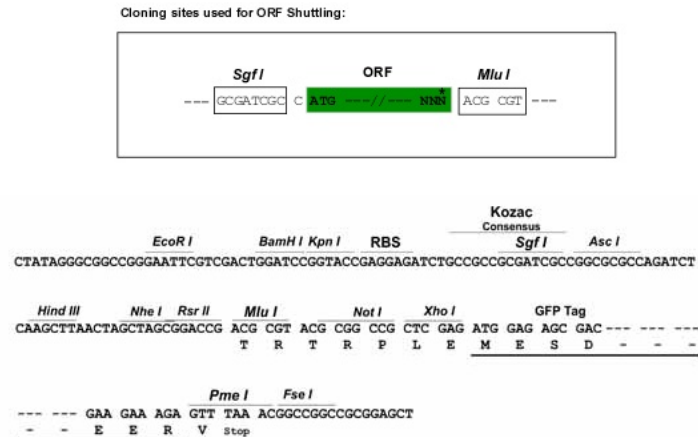
Protein Sequence: >RG216679 representing NM_001004685
 Red=Cloning site Green=Tags(s)

MEIDNQTWVREFILLGLSSDWCTQISLFSFLVLYLMTVLGNCLIVLLIRLDSRLHTPMYFFLTNLSLVD
 VSYATSVPVQLLAHFLAEHKAIPFQSCAAQLFFSLALGGIEFVLLAVMAYDRHVAVSDRLRYSAIMHGGL
 CARLAITSWVSGSINSLVQTAITFQLPMCTNKFIDHISCELLAVVRLACVDTSSNEAAIMVSSIVLLMTP
 FCLVLLSYIRIISTILKIQSREGRKKAFHTCASHLTVVALCYGTTIFTYIQPHSGPSVLQEKLISVFYAI
 VMPLLNPIYSLRNKEVKGAWHKLLEKFSGLTSKLG

TRTRPLE – GFP Tag – V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001004685

ORF Size: 951 bp

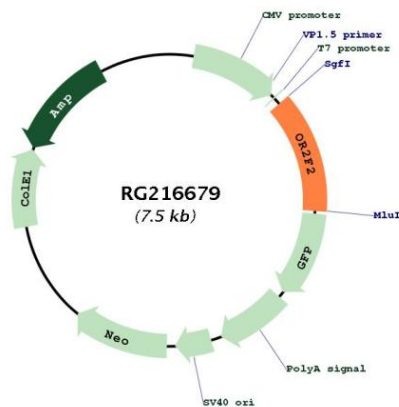
OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially 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.
RefSeq:	<u>NM_001004685.1, NP_001004685.1</u>
RefSeq Size:	954 bp
RefSeq ORF:	954 bp
Locus ID:	135948
UniProt ID:	<u>O95006</u>
Cytogenetics:	7q35
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]

Product images:



Circular map for RG216679