

## Product datasheet for RC211222

### OR2F1 (NM\_012369) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	OR2F1 (NM_012369) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	OR2F1
Synonyms:	7M1-2; OLF3; OR2F3; OR2F3P; OR2F4; OR2F5; OR7-139; OR7-140; OR14-60
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC211222 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGGATCGCC**

ATGGGAACAGATAACCAGACTTGGGTGAGTGAATTTATTCTCCTCGGCCTGTCCAGTGACTGGGACACTC  
GGGTCTCCCTGTTTGTCTTGGTCATGTATGGTGACCGTGCTGGGAACTGTCTCATTGTCTCCT  
TCTGATCAGACTGGACAGCCGACTCCACACTCCCATGATTTCTTCTCACCAACCTCTCCCTTGTGAT  
GTCTCCTATGCCACAAGTGTAGTCCCTCAGCTGCTGGCACATTTCTTGCAGAACATAAAGCCATCCCAT  
TCCAGAGCTGTGCAGCCAGTTATTTTTCTCCCTGGCCTTGGGTGGGATTGAGTTTGTCTCCTGGCGGT  
GATGGCCTATGACCGCTATGTGGCTGTGTGTGATGCCCTGCGACTCGGCCATCATGCATGGAGGGCTG  
TGTGCTAGGTTGGCCATCACATCCTGGTCACTGGCTTATCAGCTCTCCTGTGCAGACTGCTATCACCT  
TTCAGCTGCCATGTGCAGAAACAAGTTTATTGATCACATATCCTGTGAACCTCTAGCTGTGGTCAGGCT  
GGCTTGTGTGGACACCTCCTCAATGAGGTCACCATCATGGTGTCTAGCATTGTTCTTCTGATGACACCC  
TTCTGCCTGGTCTTTTGTCTACATCCAGATCATCTCCACCATCCTAAAGATCCAGTCCAGAGAAGGAA  
GAAAGAAAGCTTCCACACGTGTGCTCTCACCTCACAGTGGTGGCCTGTGCTATGGTGTGGCCATTTT  
CACTTACATCCAGCCCCACTCCAGTCCCTCTGTCTTCCAGGAGAAGTTGTTCTCTGTCTTTATGCCATT  
TTAACACCAATGCTGAACCCCATGATTTACAGCCTAAGGAATAAAGAGGTGAAGGGGCTGGCAGAAAC  
TATTATGAAAATTCTCTGGGTTAACATCAAAGCTGGCAACT

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**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:** [NM\\_012369.2](#), [NP\\_036501.2](#)

**RefSeq Size:** 1089 bp

**RefSeq ORF:** 954 bp

**Locus ID:** 26211

**UniProt ID:** [Q13607](#)

**Cytogenetics:** 7q35

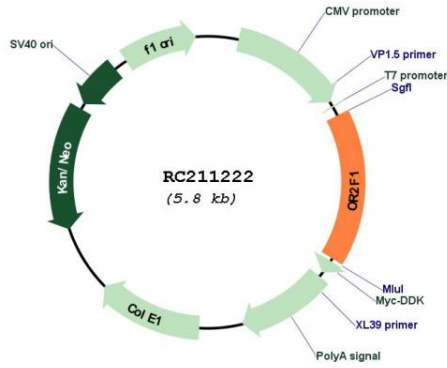
**Protein Families:** Druggable Genome, Transmembrane

**Protein Pathways:** Olfactory transduction

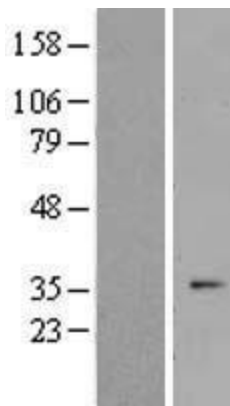
**MW:** 35.4 kDa

**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]

Product images:



Circular map for RC211222



Western blot validation of overexpression lysate (Cat# [LY415815]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC211222 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).