

Product datasheet for RC212134

OR52B4 (NM_001005161) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	OR52B4 (NM_001005161) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	OR52B4
Synonyms:	OR11-3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC212134 representing NM_001005161 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCCTACTGTAAACCACAGTGGCACTAGCCACACAGTCTTCCACTTGTGGGCATCCCTGGCCTACAGG
ACCAGCACATGTGGATTCTATCCCATTCTTCATTTCTATGTCACCGCCCTTCTGGGAACAGCCTGCT
CATCTTCATTATCCTCACAAGCGCAGCCTCCATGAACCCATGTACCTCTTCTCTGCATGCTGGCTGGA
GCAGACATTGTCCTCTCCAGTGCACCATTCCTCAGGCCCTAGCTATCTTCTGGTCCGTGCTGGGACA
TCTCCCTGGATCGTTGCATCACTCAGCTCTTCTCATCCATTCCACCTTCATCTCTGAGTCAGGGATCTT
GCTGGTATGGCCTTTGACCACTATATTGCCATATGCTACCCACTGAGGTACACCACCATTCTTACAAAT
GCTCTGATCAAGAAAATTTGTGTGACTGTCTCTGAGAAGTTATGGTACAATTTCCCTATCATATTTT
TTTTAAAAAGATTGACTTTCTGCCAGAATAATATTATCCACACACCTTTTGTGAACACATTGGCCTAGC
CAAATATGCATGTAATGACATTCGAATAAACATTTGGTATGGGTTTTCCATTCTAATGTCGACGGTGGTC
TTAGATGTTGTAATAATTTTATTTCTATATGCTGATTCTCCATGCTGTCTTCCACATGCCTTCTCCAG
ATGCTTGGCACAAGCTCTCAACACATTTGGCTCCCATGTCTGCATCATCATCTTTTATGGGTCTGG
CATCTTCAAACTCTTACCCAGAGGTTGGACGCCACATTCACCTTGTATCCACATCCCCTTGGCTAAT
GTCTGCATTCTGGCTCCACCTATGCTGAATCCCATTATTTATGGGATCAAACCAAGCAAATCCAGGAAC
AGGTGGTTCAGTTTTTGTATAAAACAGAAA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC212134 representing NM_001005161
Red=Cloning site Green=Tags(s)

MPTVNHSGTSHTVFHLLGIPGLQDQHMWISIPFFISYVTALLGNSLLIFIILTKRSLHEPMYLFLCMLAG
 ADIVLSTCTIPQALAIWFVFRAGDISLDRICITQLFFIHSTFISESGILLVMAFDHYAICYPLRYTTILT
 ALIKKICVTVSLRSYGTIFPIIFLLKRLTFCQNNIIPHTFCEHIGLAKYACNDIRINIWYGFILMSTVV
 LDVVLIFISYMLILHAVFHMPSPDACHKALNTFGSHVCIIILFYGSGIFTILTQRFGRHIPPCCIHIPLAN
 VCILAPPMLNPIIYGITKQIQEQVVFLLFIKQK

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk8026_f10.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_001005161

ORF Size: 942 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: [NM_001005161.3](#), [NP_001005161.2](#)

RefSeq Size: 945 bp

RefSeq ORF: 945 bp

Locus ID: 143496

UniProt ID: [Q8NGK2](#)

Cytogenetics: 11p15.4

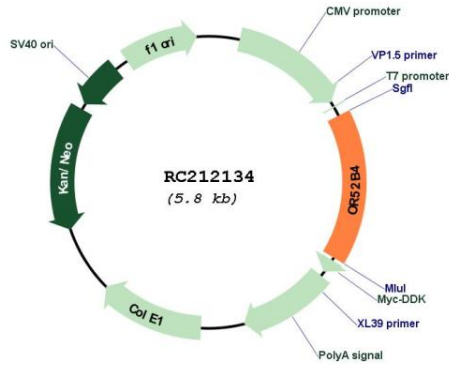
Protein Families: Druggable Genome

Protein Pathways: Olfactory transduction

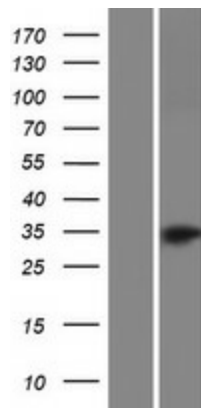
MW: 35.4 kDa

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 RC212134



Western blot validation of overexpression lysate (Cat# [LY423948]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC212134 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).