

## Product datasheet for **RC215464**

### OR52K1 (NM\_001005171) Human Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** OR52K1 (NM\_001005171) Human Tagged ORF Clone  
**Tag:** Myc-DDK  
**Symbol:** OR52K1  
**Synonyms:** OR11-8  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**ORF Nucleotide Sequence:** >RC215464 representing NM\_001005171  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGCTTCCCTCTAATATCACCTCAACACATCCAGCTGTCTTTTTGTTGGTAGGAATTCCTGGTTTGAAC  
 ACCTGCATGCCTGGATCTCCATCCCCTTCTGCTTTGCTTATACTCTGGCCCTGCTAGGCAACTGTACCCT  
 TCTTTCATTATCCGGGCTGATGCAGCCCTCCATGAACCCATGTACCTCTTCTGGCCATGTTGGCAACC  
 ATTGACTTGGTTCTTTCTTACAACGCTGCCAAAATGCTTGCCATATTCTGGTTCAGGGATCAGGAGA  
 TCAACTTCTTTGCCTGTCTGGTCCAGATGTTCTCCTTCACTCCTTCTCCATCATGGAGTCAGCAGTGCT  
 GCTGGCCATGGCCTTTGACCGCTATGTGGCCATCTGCAAGCCATTGCACTACACGACGGTCTGACTGGG  
 TCCTCATCACCAAGATTGGCATGGCTGTGTGGCCTGGGCTGTGACACTAATGACTCCACTCCCCTTCC  
 TGCTCAGACGCTTCCACTACTGCCGAGGCCAGTGATTGCCCATGCTACTGTGAACACATGGCTGTGGT  
 AAGGCTGGCGTGTGGGGACACTAGCTTCAACAATCTATGGCATTGCTGTGGCCATGTTTATTGTGGT  
 TTGGACCTGCTCTTTGTTATCCTGTCTTATGTCTTCATCCTTCAGGCAGTTCTCCAGCTTGCCCTCAGG  
 AGGCCCGCTACAAGGCATTTGGGACATGTGTGTCTCACATAGGTGCCATCCTGTCCACCTACACTCCAGT  
 AGTCATCTCTTCAGTCATGCACCGTGTAGCCCGCCATGCTGCCCTCGTGTCCACATACTCCTTGCTATT  
 TTCTATCTCCTTTCCACCCATGGTCAATCCTATCATATATGGAGTCAAGACCAAGCAGATTCGTGAGT  
 ATGTGCTCAGTCTATTCCAGAGAAGAACATG

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >RC215464 representing NM\_001005171  
Red=Cloning site Green=Tags(s)

MLPSNITSTHPAVFLLVGIPGLEHLHAWISIPFCFAYTLALLGNCTLLFIIRADAALHEPMYLFLAMLAT  
 IDLVLSSTTLPKMLAIFWFRDQEINFFACLVMFHLHSFSIMESAVLLAMAFDRYVAICKPLHYTTVLTG  
 SLITKIGMAAVAVTLMTPLPFLRRFHYCRGPVIAHCYCEHMAVVRLACGDTSFNNIYGIAMVFIIV  
 LDLLFVILSYVFIILQAVLQLASQEARYKAFGTCCVSHIGAILSTYTPVVISSVMHRVARHAAPRVHILLAI  
 FYLLFPPMVNPIIYGVKTKQIREYVLSLFRKNNM

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:** [https://cdn.origene.com/chromatograms/mk8003\\_a12.zip](https://cdn.origene.com/chromatograms/mk8003_a12.zip)

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_001005171

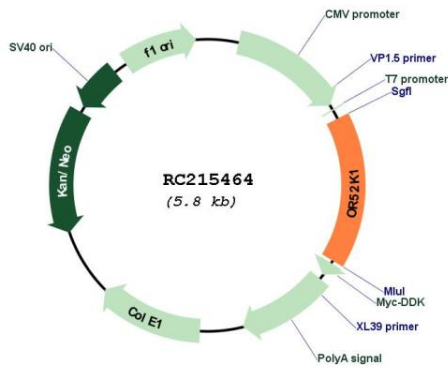
**ORF Size:** 942 bp

**OTI Disclaimer:** Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at [custsupport@origene.com](mailto:custsupport@origene.com) or by calling 301.340.3188 option 3 for pricing and delivery.

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](#)

|                               |  |
|-------------------------------|--|
| <b>OTI Annotation:</b>        | This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.   |
| <b>Components:</b>            | 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).   |
| <b>Reconstitution Method:</b> | <ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>  |
| <b>RefSeq:</b>                | <u><a href="#">NM_001005171.1</a></u> , <u><a href="#">NP_001005171.1</a></u>  |
| <b>RefSeq Size:</b>           | 945 bp   |
| <b>RefSeq ORF:</b>            | 945 bp   |
| <b>Locus ID:</b>              | 390036   |
| <b>UniProt ID:</b>            | <u><a href="#">Q8NGK4</a></u>  |
| <b>Cytogenetics:</b>          | 11p15.4  |
| <b>Protein Families:</b>      | Transmembrane  |
| <b>Protein Pathways:</b>      | Olfactory transduction   |
| <b>MW:</b>                    | 35.1 kDa   |
| <b>Gene Summary:</b>          | 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 RC215464