

Product datasheet for RC224455

OR2T12 (NM_001004692) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	OR2T12 (NM_001004692) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	OR2T12
Synonyms:	OR1-57
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC224455 representing NM_001004692 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGAGATGAGAAATACTACCCAGATTTTATTCTCCTAGGACTCTTTAACCACACCAGAGCCACCAAG
TCCTCTTCATGATGCTTCTGGCCACCGTTTTGACCTCCCTGTTTAGCAATGCCCTCATGATTCTCCTGAT
TCACTGGGACCACCGGCTCCACAGGCCATGTACTTCTCCTGAGCCAACTTCCCTCATGGACATGATG
CTGGTTTTCCACCCTGTGCCAAAATGGCGGCTGACTACTTGACCGAAAATAAGGCCATCTCCCGCGCTG
GCTGTGGTGTGCAGATCTTCTTCTCCACACTGGGTGGTGGAGAGTGCTTCTCTTAGCAGCCATGGC
CTATGACCGCTATGCGGCTGTCTGCCACCCACTCCGATATCCCACTCTCATGAGCTGGCAGCTGTGCCTG
AGGATGACCATGTCTGCTCCTGGTCTGGTGCAGCTGACGGCTCCTGCAGGCTGTTGCTACCCCTGAGCT
TCCCATATTGCGGTGCACACGAGATCGATCACTTCTTCTGCGAGGCCCGTGTGGTGCCTTTGGCTTG
TGCTGACACTTCAGTCTTCGAAAACGCCATGTACATCTGCTGTGTGTTAATGCTCCTGGTCCCCTTTTCC
CTCATCTGTCTCCTATGGTCTCATCTCGTCTGCTGTTCTGCTCATGCGCTCTACAGAAGCCCGCAAGA
AGGCCTTTGCCACCTGCTCTTACATGTGGCTGTGGTGGGACTCTTTTATGGAGCTGGCATTTTTACCTA
TATGAGACCCAAATCCCACAGTCCACTAACCACGATAAGGTTGTGTCAGCCTTCTATACTATGTTACCC
CCTTTACTAAATCCCCTCATCTACAGTGTGAGGAACAGTGAGGTCAAGGAAGCCCTGAAACGGTGGCTGG
GGACGTGTGTAACCTAAAACACCAGCAAAATGAGGCCACAGGTCAAGA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC224455 representing NM_001004692
Red=Cloning site Green=Tags(s)

MEMRNTTPDFILLGLFNHTRAHQVLFMMLLATVLTSLFSNALMILLIHWDHRLHRPMYFLLSQLSLMDMM
 LVSTTVPKMAADYLTGNKAI SRAGCGVQIFFLPTLGGGECFLLAAMAYDRYA AVCHPLRYPTLMSWQLCL
 RMTMSSWLLGAADGLLQAVATLSFPYCGAHEIDHFFCEAPVLRACADTSVFENAMYICCVLMMLLVPFS
 LILSSYGLILAAVLLMRSTEARKKAFATCSSHVAVVGLFYGAGIFTYMRPKSHRSTNHDKVVSAFYTMFT
 PLLNPLIYSVRNSEVKEALKRWLGTCVNLKHQQNEAHRSR

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk8002_d08.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



* The last codon before the Stop codon of the ORF

ACCN: NM_001004692

ORF Size: 960 bp

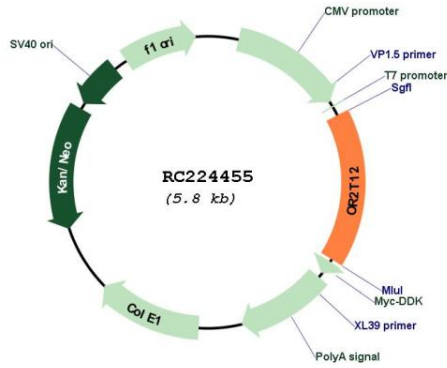
OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially 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.

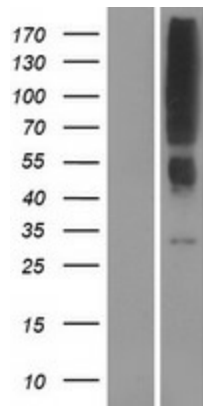
Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

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_001004692.1 , NP_001004692.1
RefSeq Size:	963 bp
RefSeq ORF:	963 bp
Locus ID:	127064
UniProt ID:	Q8NG77
Cytogenetics:	1q44
Protein Families:	Transmembrane
Protein Pathways:	Olfactory transduction
MW:	35.8 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. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RC224455



Western blot validation of overexpression lysate (Cat# [LY423880]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC224455 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).