OriGene Technologies, Inc.
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

Product datasheet for RC216800

OR2A25 (NM_001004488) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	OR2A25 (NM_001004488) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	OR2A25
Synonyms:	OR2A24P; OR2A25P; OR2A27
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

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>RC216800 representing NM_001004488
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGGGGGAAATCAGACTTCCATCACAGAGTTCCTCCTACTGGGATTTCCCATTGGCCCAAGGATTCAGA
TGCTCCTCTTTGGGCTCTTCTCCCTGTTCTACATCTTCATTCTGTTGGGGAACGGGACAATCCTGGGGCT
CATCTCACTGGACTCCAGACTCCACACCCCCATGTACTTCTTCCTCTCACACCTGGCGGTCGTCGACATC
GCCTGTGCTTGCAGCACGGTGCCCCAGATGCTGGTGAACCTCCTGCATCCAGCCAAGCCCATCTCCTTTG
CTGGCTGCATGACCCAGATGTTTCTGTTTTTGAGTTTTGCACATACAGAATGTCTCCTCCTGGTGGTGAT
GTCCTATGATCGGTACGTGGCCATCTGCCACCCTCTCCGATATTCTACCATCATGACCTGGAAAGTCTGC
ATCACTTTGGCATTGACTTCCTGGATTTTAGGAGTCTTATTGGCCCTTGTCCATCTAGTGTTACTGCTAC
CACTGTCCTTCTGTGGACCCCAGAAACTTAATCACTTTTTCTGTGAAATTATGGCTGTTCTCAAACTTGC
CTGTGCGGATACCCACATTAATGAGGTAATGGTTTTGGCAGGGGCAGTGTCTGTGCTGGTGGGAGCCTTC
TTTTCCACTGTAATATCTTATGTTCATATTCTATGTGCCATTCTAAAGATCCAGTCAGGAGAGGGGTGCC
AGAAAGCCTTCTCCATCTGCTCCTCCCACCTCTGTGTGGTTGGACTCTTTTATGGCACAGCCATCATCAT
GTATGTTGAGCCCCAGTATGAGAGCCCCAAGGAGCAGAAGAAATATCTCCTGCTGTTTCACAGCCTCTTC
AATCCCATGCTTAATCCCCTAATTTATAGTCTTAGGAACAAGGAAGTCCAAGGTACTCTAAAGAGGATGC
TTGAAAAGAAGAGAACTTCA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA
```

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Protein Sequence:

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>RC216800 representing NM_001004488
Red=Cloning site Green=Tags(s)

MGGNQTSITEFLLLGFPIGPRIQMLLFGLFSLFYIFILLGNGTILGLISLDSRLHTPMYFFLSHLAVVDI
ACACSTVPQMLVNLLHPAKPISFAGCMTQMFLFLSFAHTECLLLVVMSYDRYVAICHPLRYSTIMTWKVC
ITLALTSWILGVLLALVHLVLLLPLSFCGPQKLNHFFCEIMAVLKLACADTHINEVMVLAGAVSVLVGAF
FSTVISYVHILCAILKIQSGEGCQKAFSICSSHLCVVGLFYGTAIIMYVEPQYESPKEQKKYLLLFHSLF
NPMLNPLIYSLRNKEVQGTLKRMLEKKRTS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV
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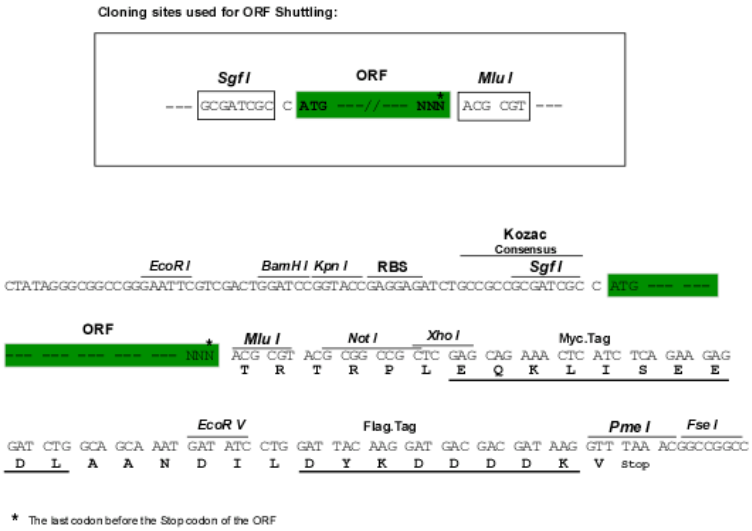
Chromatograms: https://cdn.origene.com/chromatograms/mk8018_e12.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001004488

ORF Size: 930 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).

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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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	NM_001004488.1, NP_001004488.1
RefSeq Size:	933 bp
RefSeq ORF:	933 bp
Locus ID:	392138
UniProt ID:	A4D2G3
Cytogenetics:	7q35
Protein Pathways:	Olfactory transduction
MW:	34.4 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. [provided by RefSeq, Jul 2008]

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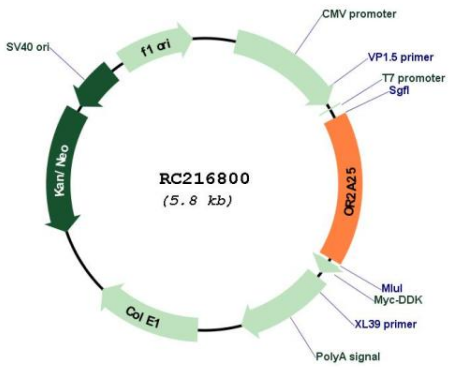
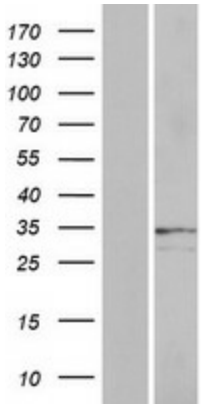
Product images:



Circular map for RC216800



Western blot validation of overexpression lysate (Cat# [LY423867]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC216800 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).

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