

Product datasheet for **RR212779**

Olr515 (NM_001000315) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Olr515 (NM_001000315) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Olr515
Synonyms:	ratchr3-69754720-69755685_ORF
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RR212779 representing NM_001000315 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGATCACATCAGCTGTAGGTGTTGACAAGATTCCATTAGAGAACATGACTGAAGCCACGATGTTTATAC
 TCTTGGGCTTCACTGATGACTTTGAATTGCAAGTTTCTATTTTACTGTTCTTGCTATTTATCTCTT
 CACTCTGATAGGAAATTTGGACTGGTTATTTGGTCATTGGGGATTGTCGGCTACACAATCCCATGTAC
 TATTTCTAAGTGTTTGTCTTTCCTGGATGCCTGTTATTCTACAGTTGTACCCCCAAATGTTGGTCA
 ACTTTCTAAATGAAAATAAGTCCATTTCTGTTCTTGCATGTGCAACACAGATGCTTCTTTGTTACTTT
 AGGAACCACAGAAATGCTTCTGCTGGCAGCAATGGCATATGACAGATATGTAGCCATCTACAACCCACTT
 CTGTACACTGTAACAATGTCACCCAGAGTATATCTGCCACTCATCATTGCCTCCTATACTGGTGGGGTTA
 TGCATGGTGCTATACACACAGTGGCCACTTTCAGTCTGTCCTTCTGTGGATCCAATGAAATAAGGCATGT
 CTTCTGTGACATCCCGCATTGCTTGTCTTCTTGTCTGATACACGCACAAATGAACCTTCTACTCTTG
 TACTTGGTGGGTTTGATTGAGATTGTCACCATCCTGATTGTTCTGGTCTCCTATGGATTCATCCTCTTG
 CCATTCTGAACATGCATTCTACTGAGGGAAGGAGGAAAGTCTTCTACATGTGGCTCTCACCTCACTGG
 AGTCTCTATTTACCATGGTACTATCCTTTTCAGTTATATGAGGCCTAGTCCAGCTATGCTTCAAATCAT
 GACATGGTAGTTTCAATATTTTACACCATGTGATACCCATGCTGAATCCTATCATCTACAGTTTGAGAA
 ATAAAGATGTAAAGAGGCAATGAAGAAATTGTGGAGAAATGTGGTTCATAAT

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 ACAAGGATGACGACGATAAGGTTTAA


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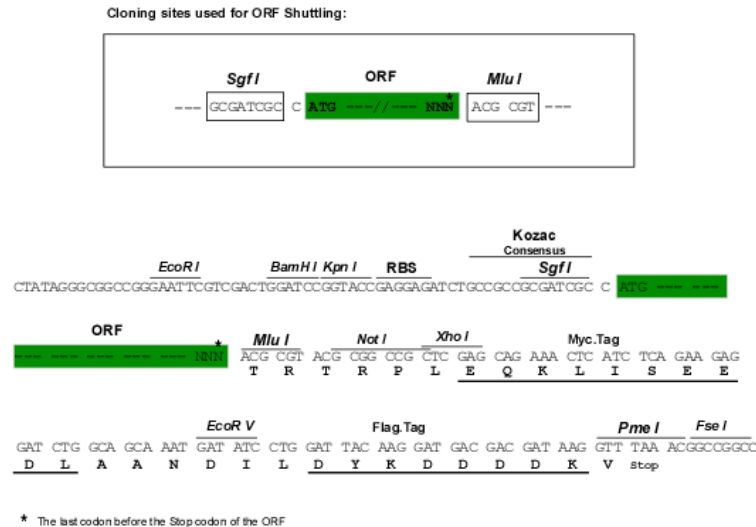
Protein Sequence: >RR212779 representing NM_001000315
 Red=Cloning site Green=Tags(s)

MITSAVGVDKIPLNMTATMFILLGFTDDFELQVFLFLFLAIYFLTLIGNFGLVILVIGDCRLHNPMY
 YFLSVLSFLDACYSTVTPKMLVNFLNENKSISFLACATQMLLFVTLGTTECFLLAAMAYDRYVAIYNPL
 LYVTMSPRVYLPIIASYTGGMHGAHTVATFSLSFCGSNEIRHVFCIPALLALSCSDTRTNELLLL
 YLVGLIEIVTILIVLSYGFILFAILNMHSTEGRRKVFSTCGSHLTGVSIIYHGTLFSYMRPSSSYASNH
 DMVVSIFYTIVIPMLNPIIYSLRNKDVKEAMKKLWRNVVHN

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001000315

ORF Size: 963 bp

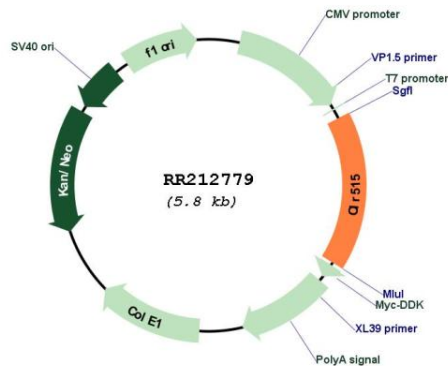
OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially 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:	<u>NM_001000315.1, NP_001000315.1</u>
RefSeq Size:	966 bp
RefSeq ORF:	966 bp
Locus ID:	295768
Cytogenetics:	3q24
MW:	36 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 RR212779