

Product datasheet for **RR210747**

Olr423 (NM_001000391) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Olr423 (NM_001000391) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Olr423
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RR210747 representing NM_001000391 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGCCACCAAAACAAGACAGAAGTGACTGAATTTGTGTTGTTGGGATTGTCTAGTAGGCCAGAGATAC
 AGCCAATTATTTTGGAGTTGTCCTTATCATGTACCTGATGACAGTTTGGGCAATATCCTACTAGTAGT
 AGTCGCTTGCTCAGACCCCATGCTTCAGACCCCATGACTTCCTTCTCAGCCAACCTTCCATTATTGAC
 ATATCTCTAACAACATCACTGTTCTCAGATGCTGGTGACACACTCTCCATGGATCGAAGCATTTCCT
 ATAAGTGTGATGACGCAATTATTTTCTTTATGGCAGTGGGCAGCATGGAAGTCTACTTGTCTGGGTAC
 AATGGCATATGACCGCTATGTTGCCATCTGTGACCCCTTAAGATACTCTGCCATTGTGAGCCATAGCCTC
 TGTCTGAGGATAACATTAACCTCTTGGGTGATAGTCAGCCTTAACAGTCTCCTATACAGTGTGCTGGTCA
 CTCGTTTAACTTTCTGTGGAACACAGGTCACTCACTTCTTCTGTGATATCACTCCTCTGCTAAAGCTCTC
 CTGTACTCGACCAAGTGGTCAATGAAATGTTAATCTTCACTGAGGGTGTAGTTGTGGTTGGCAGTCCCTTC
 TTCTTTATTTGGGGTTCTTACATTCGAATAGGTATTACCATAGCCACATGCACTCCTTTGCTGCCCTGA
 GGAAAGCTCTGTCCACCTGTAGTCCCATTCTTGTGTTGCTCCTTTTGGCTCTTTGGCTAGAAAT
 GTACCTTAAGCCATCATCCAGCTATGATTTAGACCAGGATCGCCAGGTTGCTGTCTTCTACACACTCATC
 ACCCTATGTTAAATCCACTAATCTACAGCCTTCGGAACCAAGATGTTAAAGGAGCACTATGGAGGCTTT
 TTAGGAACTCCATACTTCAGACTGGCTCTCAGACAAACAAAGAATAAAAAACAACTCGTGAGAACCA
 GGGT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA


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Protein Sequence: >RR210747 representing NM_001000391

Red=Cloning site Green=Tags(s)

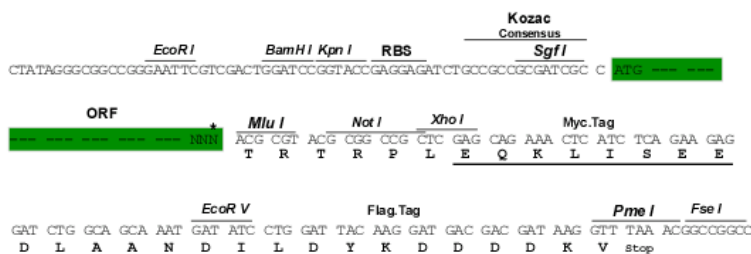
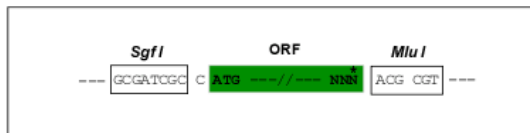
MATKNKTEVTEFVLLGLSSRPEIQPIIFGVVLLIMYLMTVLGNILLVVVACSDPMLQTPMYFLLSQLSIID
ISLTTITVPMQLVHTLSMDRSISYNCCMTQLFFMVAVGSMEVYLLGTMAYDRYVAICDPLRYSAIVSHSL
CLRILTTSWVIVSLNALLSYSLVTRLFCGNQVTHFFCDITPLKLKSTRCPVVNEMLIFTEGVVVVSGSPF
FIWISYIRIGITIANHMLGSAFALRKALSTCSSHLLVLLLFGSLARMYLPSSSYDLQDQRQVAVFYTLI
TPMLNPLIYSLRNODYKMGALWRLFKRLHTSDWLSDKORKNKLVRTKG

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM 001000391

ORF Size: 984 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_001000391.1, NP_001000391.1

RefSeq Size: 987 bp

RefSeq ORF: 987 bp

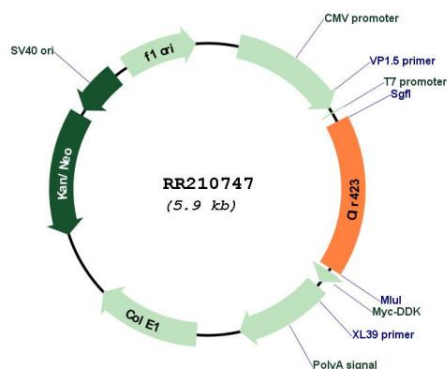
Locus ID: 296685

Cytogenetics: 3q11

MW: 37.1 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 RR210747