

Product datasheet for MR220345

Rtp1 (NM_001004151) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Rtp1 (NM_001004151) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Rtp1
Synonyms:	Gm604; Gm1766
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR220345 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGAGGATTTTTAGACCGTGGAGACTGCGCTGCCCTGCCTTACACTTACCCTCTTCCCCACGTTCTCTA
TAAAGTGTAGTTTGCCTCCTCTTCCCACTGACGAAGACATGTGTAAGAGTGTGACCACAGGTGAGTGGAA
GAAGGTCTTCTACGAGAAGATGGAGGAGGTGAAGCCAGCGGACAGCTGGGACTTCATCATAGACCCCAAC
CTCAAGCACAATGTGTTGGCCCTGGCTGGAAGCAGTACCTGGAACCTCATGCCTCAGGCAGTTTCCACT
GTTCTGGTGCTGGCACACCTGGCAGTCAACCCATGTAGTCATCCTCTTCCACATGTACCTGGACAAGGC
TCAGCGCGCTGGTTCGGTGCGCATGCGTGTGTTCAAGCAGCTCTGCTACGAGTGCCTGACAGCAGGCTG
GATGAGTCCAGCATGCTGGAGGAGAACATCGAAAGCCTGGTGGACAACCTCATCACCAGTTTGCAGAGC
AGTGCTACGGGGAGCGTGGTGGCCACTACCGCATCCATGTGGCCAGCCGGCAGGACAACCGGCGACACCG
CGGAGAGTTTCTGCGAGGCCTGCCAGGAAGGCATCGTGCCTGGAAGCCAGTGAAGAGTCTGGAGGAG
GAGGCGACCACCTACACCTTCTCCCGTGTCCCAGCCCCACAAACCGCAGGCTGAAACAGGCTCAGGCT
GCAACTTCTGCTCCATTCCTGGTGCTATTTTGGGCCACGGTTTTGATGCTCATCATCTACCTGCAATT
CTCCTTCGGTACTTCTGTC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR220345 protein sequence
Red=Cloning site Green=Tags(s)

MRIFRPWRLRCPALHLPSPFTFSIKCSLPLPTDEDMCKSVTTGEWKVFYEKMEEVKPADSWDFIIDPN
 LKHNVLAPGWKQYLELHASGRFHCSWCWHTWQSPHVVILFHMVLDKAQRAGSVRMRVFKQLCYECGTARL
 DESSMLEENIESLVDNLITSLREQCYGERGGHYRIHVASRQDNRRHRGEFCEACQEGIVHWKPSEKLL
 EATTYTFSRAPSPKQAETGSGCNFCSIPWCLFWATVLMMLIIYLQFSFRTSV

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



ACCN: NM_001004151

ORF Size: 792 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_001004151.2](#), [NP_001004151.1](#)

RefSeq Size: 3120 bp

RefSeq ORF: 792 bp

Locus ID: 239766

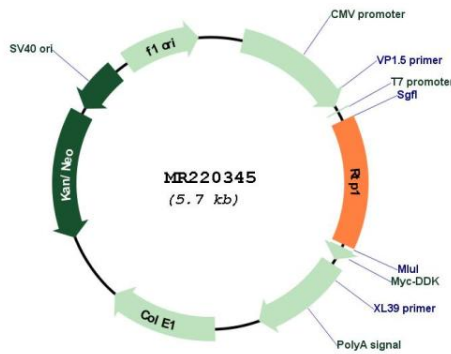
UniProt ID: [Q8C8C1](#)

Cytogenetics: 16 B1

MW: 30.7 kDa

Gene Summary: Specifically promotes functional cell surface expression of olfactory receptors, but not of other GPCRs.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR220345