

Product datasheet for **MG220345**

Rtp1 (NM_001004151) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Rtp1 (NM_001004151) Mouse Tagged ORF Clone
Tag: TurboGFP
Symbol: Rtp1
Synonyms: Gm604; Gm1766
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >MG220345 representing NM_001004151
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGAGGATTTTTAGACCGTGGAGACTGCGCTGCCCTGCCTTACACTTACCCTCTTCCCCACGTTCTCTA
 TAAAGTGTAGTTTGCCTCCTCTCCCACTGACGAAGACATGTGTAAGAGTGTACCACAGGTGAGTGGAA
 GAAGGTCTTCTACGAGAAGATGGAGGAGGTGAAGCCAGCGGACAGCTGGGACTTCATCATAGACCCCAAC
 CTCAAGCACAATGTGTTGCCCTGGCTGGAAGCAGTACCTGGAACCTCATGCCTCAGGCAGTTCCACT
 GTTCCTGGTGCTGGCACACCTGGCAGTACCCCATGTAGTCATCCTCTTCCACATGTACCTGGACAAGGC
 TCAGCGCGCTGGTTCGGTGCGCATGCGTGTGTTCAAGCAGCTCTGCTACGAGTGCAGTACAGCACGGCTG
 GATGAGTCCAGCATGCTGGAGGAGAACATCGAAAGCCTGGTGGACAACCTCATCACCAGTTTGCAGAGC
 AGTGCTACGGGGAGCGTGGTGGCCACTACCGCATCCATGTGGCCAGCCGGCAGGACAACCGGCGACACCG
 CGGAGAGTTTCTGCGAGGCCTGCCAGGAAGGCATCGTGCCTGGAAGCCAGTGAAGCTGCTGGAGGAG
 GAGGCGACCACCTACACCTTCTCCCGTGTCCCAGCCCCACAAACCGCAGGCTGAAACAGGCTCAGGCT
 GCAACTTCTGCTCCATCCCTGGTGCTATTTTGGGCCACGGTTTGTATGCTCATCATCTACCTGCAATT
 TCCTTCCGTACTTCTGTC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG220345 representing NM_001004151
 Red=Cloning site Green=Tags(s)

MRIFRPWRLRCPALHLPSPFTFSIKCSLPPLPTDEDMCKSVTTGEWKVFYEKMEEVKPADSWDFIIDPN
 LKHNVLAPGWKQYLELHASGRFHCSWCWHTWQSPHVVILFHMYLDKAQRAGSVRMRVFKQLCYECGTARL
 DESSMLEENIESLVDNLITSLREQCYGERGGHYRIHVASRQDNRRHRGEFCEACQEGIVHWKPEKLLLE
 EATTYTFSRAPSPKPKQAETGSGCNFCIPWCLFWATVLMMLIIYLQFSFRTSV

TRTRPLE - GFP Tag - V

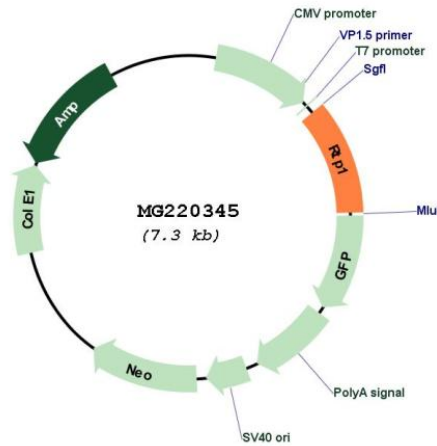
Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



Plasmid Map:



ACCN: NM_001004151

ORF Size: 789 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_001004151.2 , NP_001004151.1
RefSeq Size:	3120 bp
RefSeq ORF:	792 bp
Locus ID:	239766
UniProt ID:	Q8C8C1
Cytogenetics:	16 B1
Gene Summary:	Specifically promotes functional cell surface expression of olfactory receptors, but not of other GPCRs.[UniProtKB/Swiss-Prot Function]