

## Product datasheet for **MG218503**

### **Rft1 (NM\_177815) Mouse Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Rft1 (NM_177815) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Rft1
Synonyms:	D930025H04
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>MG218503 representing NM\_177815  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**GCGATCGCC**

ATGGGCAGCCAGGAGGTGCTAGGCCAGGCGGCCGGTTGGCCCTCCTCGGTCTCCTGCTGCAGTCTTGT  
 TTCGATTAATCACCTTTGTCTTGAATGCATTTATTCTTCGATTCCGTCAAAGGAGATTGTGGGCATAGT  
 GAATGTCAGACTAACGCTGCTTTACTCAACCACAACCTTCTGGCCAGGAGGCCTTCCGAAGAGCTTGT  
 CTGAGCGGGGGTCCAGCGGGACTGGAGTCAGACCCTCAACCTCCTGTGGCTAACTGTCCCACTGGGTA  
 TATTTTGGTCTCCTGCTTGGGCTGGTCTGGTTGCAGTTGCTTGAAGTGCCTGATCCAGATGTGGTCCC  
 CTACTATGGAAGTGGTGTGCTGTTCTTTGGTCTCTCAGCAGTTGTGAACTTCTGGGAGAGCCTTTCTGG  
 GTCTTGGCACAAGCACATATGTTTGTAAAGCTCAAGTTCTTGTGAGAGCATGTCGGTCATCCTTAGGA  
 GTGCTCAGCGGCTCTTCTGCTGTGGCTGCCTCACTGGGGTCTGTACATCTTTCTTTGGCTCAGCT  
 TCTCTACAGACTGTTCTGGTGTCTGCTATGCCATCTATTTAATAACAATTACTGCGTTCGCCAGAATCA  
 GCCAAGCAACTAACTCTTCTGTCTCCAGAGTAACACAACCTGTTGCCAGTATTTCAAGAAGCAGAGCAT  
 TTGTCAACTGGAAGGAGGAGGATTGGCTTGGAGCTTCTCAAACAGTCGTTCTTGAAGCAGATTTTGAC  
 AGAAGGCGAGCGGTACGTGATGACATTTTTGAATGTGTTAAACTTTGGCGATCAGGGTGTATATGACATA  
 GTGAATAATCTTGGCTCCCTTGTGGCCAGGCTAATTTCCAGCCAGTAGAGGAGAGTTTTTATTTATTCT  
 TTGCTAAAGTGTAGAGAGAGAGAAGGACGCCTCACTTCAAGAAGCAGGACGATGTTGCTGTGGCTGCTGC  
 GGTTTTGGAGTCCCTCCTCAAGCTGGCCTTGTGACTGGACTGACCATGACTGTTTTTGGCTTTGCCTAT  
 TCCCAACTGGCTTTGGACATCTATGGAGGAGCCATGCTTAGTTCGGGACTGCGCCCTGTGCTGATGCGTT  
 GCTATTGCCTCTATGCCTCCTGCTTGTATCAATGGTGTGACCGAGTGTTCATGTTTGGCCCATGAG  
 CAAAGAGGAGGTTGACAGGTACAATTTACCATGCTGGCACTGTATCCTCGTTTTTAGTCTTATCCTAC  
 CTGCTGACCAGTTGGTGTGGCAGTGTGGCTTTCATCATGGCCAACGCTTTAACATGGGCATCCGGATCA  
 CACAGAGTCTTTCCTTCACTCACTACTTCCGAGAGAGCCCTCACAGACCCCTGGCTGGCCTGCGCCT  
 GTCACCAGTCTTCTTGGGGTGTTCATTCTCAGTGTGGGATTACTAGTGTCTCAGAGGCATTCTCTGCT  
 TGTGAGAGGGGCTGGCCAGCTAGGCTGGCACACATCGTGTGGGGACCATCTGCTTAGGAGTGACTCTTG  
 GGACAGCGTTCCTCACAGAGACCAAGCTGATCCACTTTCTCAGGACTCAGTTGGGTAGATCCAGACTCAG  
 TGACAAAATGACA

**ACGCGT**ACGCGGCCGCTCGAG – GFP Tag – GTTTAA

**Protein Sequence:**

>MG218503 representing NM\_177815  
 Red=Cloning site Green=Tags(s)

MGSQEVLGQAARLASSGLLLQVLFRLITFVLFNAFILRFLSKEIVGIVNVRLTLLYSTTTFLAREAFRRAC  
 LSGGAQRDWSQTLNLLWLVPLGIFWSSCLGWVWLQLLEVDPDPVVPYYGTGVLFGLSAVVELLGEPFW  
 VLAQAHMVFKLKVLAESMSVILRSVLTALLVWLPHWGLYIFSLAQLLYTTVLVLCYAIYLIQLLRSPES  
 AKQLTLPVSRVTQLLPSISRSRAFVNWKEAGLAWSFQKQSLKQILTEGERYVMTFLNVLNFQDQGVYDI  
 VNNLGSVARLIFQPVEESFYLFFAKVLEREKDASLQKQDDVAVAAVLESLLKALLTGLTMTVFGFAY  
 SQLALDIYGGAMLSSGSGPVLRCYCLYVLLLAINGVTECFMFAAMSKEEVDRYNTMLALSSSFLVLSY  
 LLTSWCGSVGFIMANCFNMGIRITQSLSFIIHHYFRESPHRPLAGLRLSPVLLGVFVILSAGITSVSEAFLC  
 CERGWPARLAHIAVGTICLVTLGTAFLTETKLIHFLRTQLGRSRLSDKMT

**TRTRPLE** – GFP Tag – V

**Restriction Sites:**

Sgfl-MluI



<b>ACCN:</b>	NM_177815
<b>ORF Size:</b>	1623 bp
<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_177815.3</a> , <a href="#">NP_808483.2</a>
<b>RefSeq Size:</b>	2384 bp
<b>RefSeq ORF:</b>	1626 bp
<b>Locus ID:</b>	328370
<b>UniProt ID:</b>	<a href="#">Q8C3B8</a>
<b>Cytogenetics:</b>	14 B
<b>Gene Summary:</b>	May be involved in N-linked oligosaccharide assembly. May participate in the translocation of oligosaccharide from the cytoplasmic side to the luminal side of the endoplasmic reticulum membrane (By similarity).[UniProtKB/Swiss-Prot Function]