

## Product datasheet for **RG224765**

### **ROR1 (NM\_001083592) Human Tagged ORF Clone**

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** ROR1 (NM\_001083592) Human Tagged ORF Clone  
**Tag:** TurboGFP  
**Symbol:** ROR1  
**Synonyms:** dj537F10.1; NTRKR1  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-AC-GFP (PS100010)  
**E. coli Selection:** Ampicillin (100 ug/mL)  
**ORF Nucleotide Sequence:** >RG224765 representing NM\_001083592  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGCACCGCCGCGCCGCGGGACGCGCCCGCCTCTGGCGCTGCTGGCCGCGCTGCTGCTGGCCG  
 CACGCGGGGCTGCTGCCAAGAAACAGAGCTGTCAGTCAGTGCTGAATTAGTGCTACCTCATCATGGAA  
 CATCTCAAGTGAAGTCAACAAAGATTCTTACCTGACCCTTGATGAACCAATGAATAACATCACCACGCT  
 CTGGGCCAGACAGCAACTGCACTGCAAAGTCTCTGGGAATCCACCTCCACCATCCGCTGGTTCAAAA  
 ATGATGCTCCTGTGGTCCAGGAGCCCGGAGGCTCTCCTTTCGGTCCACCATCTATGGCTCTCGGCTGCG  
 GATTAGAAACCTCGACACCACAGACACAGGCTACTTCCAGTGCGTGGCAACAAACGCAAGGAGGTGGTT  
 TCTTCCACTGGAGTCTTGTGTCAAGTTTGGCCCCCTCCCACTGCAAGTCCAGGATACTCAGATGAGT  
 ATGAAGAAGATGGATTCTGTGAGCCATACAGAGGGATTGCATGTGCAAGATTTATTGGCAACCGCACCGT  
 CTATATGGAGTCTTGCACATGCAAGGGGAAATAGAAAATCAGATCACAGCTGCCTTCACTATGATTGGC  
 ACTTCCAGTCACTTATCTGATAAGTGTCTCAGTTCGCCATTCTTCCCTGTGCCACTATGCCTTCCCGT  
 ACTGCGATGAAACTTCATCCGTCACAAAGCCCGTACTGTGTGCGGATGAATGTGAAATCCTGGAGAA  
 TGTCTGTGTCAAACAGAGTACATTTTGAAGATCAAATCCCATGATTCTGATGAGGCTGAAACTGCCA  
 AACTGTGAAGATCTCCCCAGCCAGAGAGCCAGAAGCTGCGAAGTGTATCCGGATTGGAATCCCATGG  
 CAGATCCTATAAAATAAAATCACAAAGTGTATAACAGCACAGGTGTGGACTACCGGGGACCGTCAGTGT  
 GACCAAATCAGGGCGCCAGTGCCAGCCATGGAATTTCCAGTATCCCCACACACACTTTTACCAGCCCTT  
 CGTTTCCAGAGCTGAATGGAGGCCATTCTACTGCCGAACCCAGGGAATCAAAGGAAGCTCCCTGGT  
 GCTTACCTTGGATGAAAACCTTAAAGTCTGATCTGTGTGACATCCAGCGTGCGGTAAA

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >RG224765 representing NM\_001083592  
Red=Cloning site Green=Tags(s)

MHRPRRRGTRPPLLALLAALLLAARGAAAQETELSVSAELVPTSSWNISSELNKDSYLTLDPEMNNITTS  
 LGQTAEHLCKVSGNPPPTIRWFKNDAPVVQEPRLSFRSTIYGSRLRIRNLDTTDTGYFQCVATNGKEVV  
 SSTGVLVFKFGPPPTASPGYSDEYEDGFCQPYRGIACARFIGNRTVYMESLHMQGEIENQITAAFTMIG  
 TSSHLSDKCSQFAIPSLCHYAFPYCDETSVVPKPRDLRDECEILENVLCQTEYIFARSNPMLMRLKLP  
 NCEDLPQPESPEAANCIRIGIPMADPINKNHKCYNSTGVDYRGTVSVTKSGRQCQPWNSQYPHTHTFTAL  
 RPELNGGHSYCRNPGNQKEAPWCFTLDENFKSDLCDIPACGK

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_001083592

**ORF Size:** 1179 bp

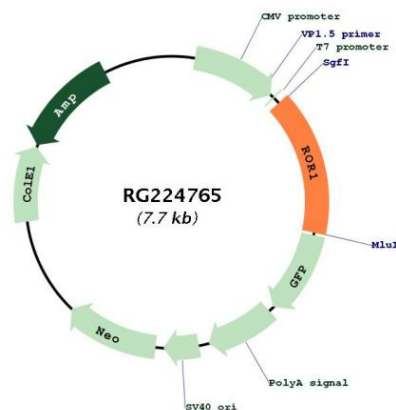
**OTI Disclaimer:** Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at [custsupport@origene.com](mailto:custsupport@origene.com) or by calling 301.340.3188 option 3 for pricing and delivery.

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.

<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_001083592.1</a> , <a href="#">NP_001077061.1</a>
<b>RefSeq Size:</b>	2303 bp
<b>RefSeq ORF:</b>	1182 bp
<b>Locus ID:</b>	4919
<b>UniProt ID:</b>	<a href="#">Q01973</a>
<b>Cytogenetics:</b>	1p31.3
<b>Protein Families:</b>	Druggable Genome, Protein Kinase, Transmembrane
<b>Gene Summary:</b>	This gene encodes a receptor tyrosine kinase-like orphan receptor that modulates neurite growth in the central nervous system. The encoded protein is a glycosylated type I membrane protein that belongs to the ROR subfamily of cell surface receptors. It is a pseudokinase that lacks catalytic activity and may interact with the non-canonical Wnt signalling pathway. This gene is highly expressed during early embryonic development but expressed at very low levels in adult tissues. Increased expression of this gene is associated with B-cell chronic lymphocytic leukaemia. Alternative splicing results in multiple transcript variants encoding different isoforms. [provided by RefSeq, Jun 2012]

## Product images:



Circular map for RG224765