

## Product datasheet for **SC117005**

### **ROR1 (NM\_005012) Human Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	ROR1 (NM_005012) Human Untagged Clone
Tag:	Tag Free
Symbol:	ROR1
Synonyms:	dj537F10.1; NTRKR1
Mammalian Cell Selection:	None
Vector:	<u><a href="#">pCMV6-XL6</a></u>
E. coli Selection:	Ampicillin (100 ug/mL)



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**Fully Sequenced ORF:**

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>OriGene ORF sequence for NM_005012 edited
ATGCACCGGCCGCGCCGCGGGACGCGCCCGCCGCTCTGGCGCTGCTGGCCGCGCTG
CTGCTGGCCGCACGCGGGGCTGCTGCCAAGAAACAGAGCTGTCAGTCAGTGTGAATTA
GTGCCTACCTCATCATGGAACATCTCAAGTGAACCAACAAGATTCTTACCTGACCCTT
GATGAACCAATGAATAACATCACCACGTCTCTGGGCCAGACAGCAAACTGCACTGCAAA
GTCTCTGGGAATCCACCTCCCACCATCCGCTGGTTCAAAAATGATGCTCCTGTGGTCCAG
GAGCCCCGGAGGCTCTCCTTTTCGGTCCACCATCTATGGCTCTCGGCTGCGGATTAGAAAC
CTCGACACCACAGACACAGGCTACTTCCAGTGCCTGGCAACAAACGGCAAGGAGGTGGTT
TCTTCCACTGGAGTCTTGTGTTGTCAAGTTTGGCCCCCTCCCACTGCAAGTCCAGGATAC
TCAGATGAGTATGAAGAAGATGGATTCTGTGAGCCATACAGAGGGATTGCATGTGCAAGA
TTTATTGGCAACCGCACCGTCTATATGGAGTCTTGCACATGCAAGGGGAAATAGAAAAAT
CAGATCACAGTGCCTTCACTATGATTGGCACTTCCAGTCACTTATCTGATAAGTGTCT
CAGTTCGCCATTCTTCCCTGTGCCACTATGCCTTCCCGTACTGCGATGAAACTTCATCC
GTCCCAAAGCCCGTGACTTGTGTGCGGATGAATGTGAAATCCTGGAGAATGCTCTGTGT
CAAACAGAGTACATTTTTGCAAGATCAAATCCCATGATTCTGATGAGGCTGAAACTGCCA
AACTGTGAAGATCTCCCCAGCCAGAGAGCCAGAAGCTGCGAACTGTATCCGGATTGGA
ATTCCCATGGCAGATCCTATAAAATAAAAAATCACAAGTGTATAACAGCACAGGTGTGGAC
TACCGGGGGACCGTCAGTGTGACCAAAATCAGGGCGCCAGTGCCAGCCATGGAATCCAG
TATCCCCACACACACTTTACCGCCCTTCGTTTCCAGAGCTGAATGGAGGCCATTCC
TACTGCCCAACCCAGGGAATCAAAAGGAAGCTCCCTGGTGTTCACCTTGGATGAAAAC
TTAAGTCTGATCTGTGTGACATCCCAGCTTGCATTCAAAGGATTCAAAGGAGAAGAAT
AAAATGGAAATCCTGTACATACTAGTGCCAAGTGTGGCCATTCCCTGGCCATTGCTTTA
CTCTTCTTTCATTTGCGTCTGTGCGAATAACCAGAAGTCATCGTCCGCCACAGTCCAG
AGGCAACCAAAACACGTACAGAGGTCAAAATGTAGAGATGCAATGCTGAATGCATATAAA
CCCAAGAGCAAGGCTAAAGAGCTACCTCTTTCTGCTGTACGCTTTATGGAAGAATTGGGT
GAGTGTGCCTTTGAAAAATCTATAAAGGCCATCTCTATCTCCAGGCATGGACCATGCT
CAGCTGGTTGCTATCAAGACCTTGAAGACTATAACAACCCCAAGCAATGGATGGAATTT
CAACAAGAAGCCTCCCTAATGGCAGAACTGCACCACCCCAATATTGTCTGCCTTCTAGGT
GCCGTCACCTCAGGAACAACCTGTGTGCATGCTTTTTGAGTATATTAATCAGGGGGATCTC
CATGAGTTCCTCATCATGAGATCCCACACTCTGATGTTGGCTGCAGCAGTGTGAAGAT
GGGACTGTGAAATCCAGCCTGGACCACGGAGATTTCTGCACATTGCAATTCAGATTGCA
GCTGGCATGGAATACCTGTCTAGTCACTTCTTTGTCCACAAGGACCTTGCAGCTCGCAAT
ATTTAATCGGAGAGCAACTTCATGTAAGATTTTCAAGTCTGGGGCTTTCCAGAGAAATT
TACTCCGCTGATTACTACAGGGTCCAGAGTAAGTCCCTTGTGCCCCATTGCTGGATGCC
CCTGAAGCCATCATGTATGGCAAATTTCTTCTGATTGAGATATCTGGTCTTTGGGGTT
GTCTTGTGGGAGATTTTTCAGTTTTGGACTCCAGCCATATTATGGATTGAGTAAACCAGGAA
GTGATTGAGATGGTGAGAAAACGGCAGCTCTTACCATGCTCTGAAGACTGCCACCCAGA
ATGTACAGCCTCATGACAGAGTGTGGAATGAGATTCCTTCTAGGAGACCAAGATTTAAA
GATATTCACGTCGGCTTCGGTCTGGGAGGACTCTCAAGTACACAAGCTCTACTACT
CCTTCAGGGGAAATGCCACCACACAGACAACCTCCCTCAGTGCCAGCCAGTGAGTAAT
CTCAGTAACCCAGATATCCTAATTACATGTTCCCGAGCCAGGGTATTACACCACAGGGC
CAGATTGCTGGTTTCATTGGCCGCCAATACCTCAGAACCAGCGATTCAATCCCATCAAT
GGATACCAATACCTCCTGGATATGCAGCGTTTCCAGTGCCTACTACCAGCCAACAGGT
CCTCCCAGAGTGATTGACACTGCCACCTCCCAAGAGTCGGTCCCAAGCAGTGCCAGT
GGGTCGACTAGCACTGGCCATGTGACTAGCTTGCCTCATCAGGATCCAATCAGGAAGCA
AATATTCCTTTACTACCACACATGTCAATTCAAATCATCCTGGTGAATGGGTATCACC
GTTTTTGGCAACAAATCTCAAAAACCTACAAAATTGACTCAAAGCAAGCATCTTTACTA
GGAGACGCCAATATTTCATGGACACACCGAATCTATGATTTCTGCAGAAGTGTAA

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**5' Read Nucleotide Sequence:**

>OriGene 5' read for NM\_005012 unedited  
 ATCCTTCCCGCCCGTTGCCGCATTGGGCGGTAGGCGTGTACGGTGGGAAGGTCTATATAA  
 GCAGAGCTCATTTAGGTGACACTATAGAATACAAGCTACTTGTCTTTTTGCAGCGGCCG  
 CGAATTCGGCAGCAGGGGAGCGTGGAGAGCTGGAGCAGCCGCCACCGCCGCCGCGAGGGA  
 GCCCGGGACGGCAGCCCTGGGCGCAGGCTGCGCTGTTCTCGGAGTCCGACCCAGGGCG  
 ACTCACGCCACTGGTGCACCCGGACAGCCTGGGACTGACCCGCCGCCAGGGCAGGGC  
 TGCAGCCAGAGGCTGGGAAGGGATCGCGCTCGCGGCATCCAGAGCGGCCAGGGCAGGG  
 CGAGGGAGCAGGTTAGAGGGACAAAGAGCTTTGCAGACGTCCCGCGCTCCTGCGAGCGC  
 CAGCGGCCGGACGAGGCGGCCGGAGCCGGGAAGAGCCCGTGGATGTTCTGCGCGCGG  
 CCTGGGAGCCGCCCGCCGCCGCTCAGCGAGAGGAGGAATGCACCGCCCGCGCCGCCG  
 CGGGACGCGCCCGCTCCTGGCGCTGCTGGCCGCGCTGCTGTCGCCGACGCGGAGC  
 TGCTGCCCAAGAAACAGAGCTGTCAGTCAGTGTGAATTAGTGCCTACCTCATATGGAA  
 CATCTCAAGTGAACCAACANAGATTCTACCTGACCCTTGATGAACCAATGAATAACAT  
 CACCACGTCTTAGGCCAGACAGCAGAAGTGCAGTGCANAGTCTCTGGGAATCCACNCT  
 CCACATCCGCTGGGTCAAAAATGATGCTCCTGTGGTCCAGGAGCCCGGAGGGCTCTCTT  
 TCGTTCAACATCTATGGCTCTCGCTGGCGGATTANAACCTCGACACCCAGACCAAGCT  
 ACTTTCAGTGCCTGGCAACA

**3' Read Nucleotide Sequence:**

>OriGene 3' read for NM\_005012 unedited  
 AAATTCGCGGTGTCTGTCCCTGCTTGGTAAGACACATGNAACCTCACANAGGTACTTGT  
 GCGATGTCTGCTAAATGAGAACCTTACTTTAATAAAAAACATTTGAATATAAATCTTTTCT  
 ACGGCCGTCTAGTTTGTCTGTATACCACATTTACAAAAGTTGTGCATTTTACAGTTCTG  
 CAGAAATCATAGATTCCGTGTGTCCATGAATATTGGCGTCTCCTAGTAAAGATGCTTGCT  
 TTGAGTCAATTTGTAGGGTTTTGAGATTTGTTGCCAACAACGGTGATACCCATTCCAC  
 CAGGATGATTTGGAATTGACATGTGTGGTAGTAAAGGAATATTTGCTTCCTGATTGGATC  
 CTGATGAGGGCAAGCTAGTCACATGGCCAGTGTAGTCGACCCACTGGCACTGCTTGGGG  
 ACCGACTCTTGGGAGGTGGGCAGTGTGAATCACTCTGGGAGGACCTGTTGGCTGGTAGT  
 GGGCAGCATGAAACGCTGCATATCCAGGAGGATTGGGTATCCATTGATGGGAATGAATC  
 GCTGGTTCTGAGGTATTGGCGGCCAATGAAACCAGCCATCTGGCCCTGTGGTGAATAC  
 CCTGGCTCGGGAACATGTAATTAGGATATCTGGGTTACTGAGATTACTCACTGNGCTGG  
 CACTGAGGGAGGTTGTCTGTGTGGTGGCATTTCGCCCTGAAGGAGTAGTAGAGCTTGTGT  
 GACTTGAGAGTCCCTNCCAGGACCGAAGCCNACGTGAATATCTTTAAATCTTGGTCTTC  
 TAGAAGGAATCTCATTCCAGCACTCTGTATTGAGCTGTACATTCTGGGTGGCAGTCTT  
 CANAGCATGTTAAGAGCTGCCGNTTCTCACCATCTCATCACTTTCTGGTTACTGAATCC  
 ATATTATGG

**Restriction Sites:**

NotI-NotI

**ACCN:**

NM\_005012

**Insert Size:**

3500 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](#)

**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\\_005012.1](#), [NP\\_005003.1](#)

**RefSeq Size:** 5871 bp

**RefSeq ORF:** 2814 bp

**Locus ID:** 4919

**UniProt ID:** [Q01973](#)

**Cytogenetics:** 1p31.3

**Domains:** KR, FRI, pkinase, TyrKc, S\_TKc, ig, IGc2, IG

**Protein Families:** Druggable Genome, Protein Kinase, Transmembrane

**Gene Summary:**

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]

Transcript Variant: This variant (1) represents the longer transcript and encodes the longer isoform (1). Sequence Note: This RefSeq record was created from transcript and genomic sequence data because transcript sequence consistent with the reference genome assembly was not available for all regions of the RefSeq transcript. The extent of this transcript is supported by transcript alignments.