

Product datasheet for **SC316056**

ROR1 (NM_001083592) Human Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: ROR1 (NM_001083592) Human Untagged Clone
Tag: Tag Free
Symbol: ROR1
Synonyms: dj537F10.1; NTRKR1
Mammalian Cell Selection: None
Vector: pCMV6-XL6
E. coli Selection: Ampicillin (100 ug/mL)

Fully Sequenced ORF: >OriGene ORF sequence for NM_001083592 edited
ATGCACCGGCCGCGCCGCGGGACGCGCCCGCCGCTCCTGGCGCTGCTGGCCGCGCTG
CTGCTGGCCGCACGCGGGGCTGCTGCCAAGAAACAGAGCTGTCAAGTGAAGTCAACAAAGATTCTTACCTGACCCCTT
GATGAACCAATGAATAACATCACCACGTCTCTGGGCCAGACAGCAGAAGTCAACTGCACTGCAAAA
GTCTCTGGGAATCCACCTCCCACCATCCGCTGGTTCAAAAATGATGCTCCTGTGGTCCAG
GAGCCCCGGAGGCTCTCCTTTTCGGTCCACCATCTATGGCTCTCGGCTGCGGATTAGAAAC
CTCGACACCACAGACACAGGCTACTTCCAGTGCCTGGCAACAAACGGCAAGGAGGTGGTT
TCTTCCACTGGAGTCTTGTGTCAGTTTGGCCCCCTCCCACTGCAAGTCCAGGATAC
TCAGATGAGTATGAAGAAGATGGATTCTGTCAAGTTCAGCCATACAGAGGGATTGCATGTGAAGA
TTTATTGGCAACCGCACCGTCTATATGGAGTCTTGCACATGCAAGGGGAAATAGAAAAT
CAGATCACAGCTGCCTTCACTATGATTGGCACTTCCAGTCACTTATCTGATAAGTGTCT
CAGTTCGCCATTCTTCCCTGTGCCACTATGCCTTCCCCTACTGCGATGAAAATTCATCC
GTCCCAAAGCCCCGTGACTTGTGTGCGGATGAATGTGAAATCCTGGAGAAATGTCCTGTGT
CAAACAGAGTACATTTTGAAGATCAAATCCCATGATTCTGATGAGGCTGAAATGCCA
AACTGTGAAGATCTCCCCAGCCAGAGAGCCAGAAAGTGCAGAACTGTATCCGGATTGGA
ATTCCCATGGCAGATCTATAAATAAAATCACAAGTGTATAACAGCACAGGTGTGGAC
TACCGGGGACCCTCAGTGTGACCAAATCAGGGCGCCAGTGCCAGCCATGGAATTCACAG
TATCCCCACACACACTTTCACCGCCCTTCGTTTCCCAGAGCTGAATGGAGGCCATTCC
TACTGCCGCAACCCAGGAATCAAAGGAAGCTCCCTGGTGTGCTTACCTTGGATGAAAAC
TTTAAGTCTGATCTGTGTGACATCCCAGCGTGGGTAATAG



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5' Read Nucleotide Sequence:

>OriGene 5' read for NM_001083592 unedited
 CCCCCTCGTTGAGCAAATGGGCGGTAGGCGTGTACGGTGGGAGGTCTATATAAGCAGAG
 CTCATTTAGGTGACACTATAGAATACAAGCTACTTGTCTTTTTGCAGCGGCCGCGAATT
 CGGCACGAGGGAGCGTGGAGAGCTGGAGCAGCCGCCACC GCCCGCCGCGGAGGGAGCCCCG
 GGACGGCAGCCCCCTGGGCGCAGGGTGCCTGTTCTCGGAGTCCGACCCAGGGCGACTCAC
 GCCCACTGGTGCACCCGGACAGCCTGGGACTGACCCGCCGCCAGGCGAGGCTGCAGC
 CAGAGGGCTGGGAAGGGATCGCGCTCGCGCATCCAGAGCGGCCAGGCGGAGGCGAGGG
 AGCAGGTTAGAGGGACAAAGAGCTTTGCAGACGTCCCCGGCGTCTCGCAGCGCCAGCGG
 CCGGGACGAGGCGCGGAGGCCGGAAGAGCCCGTGGATGTTCTGCGCGCGCCCTGGG
 AGCCGCCCGCCGCCGCTCAGCGAGAGGAGGAATGCACCGGCCGCGCCGCCGCGGGAC
 GCGCCCGCGCTCCTGGCGCTGCTGGCCGCGTCTGCTGGCCGCACGCGGGGCTGCTGC
 CCAAGAAACAGAGCTGTCAGTCACTGCTGAATTAGTGCCTACCTCATCATGGAACATCTC
 AAGTGAATCAACAAAGATTCTTACCTGACCCTTGTGAACCAATGAATAACATCACCAC
 GTCTCCTGGGCCAGACAGCAGAACTGCACTGCAAAGTCTCTGGGAATCCACCTCCCACCA
 TCCGCTGGTTCAAAAAATGATGCTCTGTGGTCAAGAGCCCGGAAGCTCTTTTCGTCCAC
 CATCTATGGCCTCGCTGCGAATAAACCTGCACCCCAAAACAGCTAGCTATATTGCTGCA
 ACGACGGACAAGAAGGTGGTTTTCTACATGCATTCTCGATTTGCATCACTCGCGC

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_001083592 unedited
 CGCGATCCACTTCAGGGCCGGAGAGGCACTGGGGAGGGTACAGGGATGCCACCCGGGA
 TCTGTTACAGAAACAGCTATGACCGCGCCGCAATCTAGACTATTTACCGCACGTTGGGA
 TGTCACACAGATCAGACTTAAAGTTTTTCATCCAAGGTGAAGCACCAGGGAGCTTCCTTTT
 GATTCCCTGGGTTGCGGCAGTAGGAATGGCCTCCATTGCTCTGGGAAACGAAGGGCGG
 TGAAGTGTGTGTGGGATACTGGGAATCCATGGCTGGCACTGGCGCCCTGATTTGG
 TCACACTGACGGTCCCCGGTAGTCCACACCTGTGCTGTTATAACACTTGTGATTTTTAT
 TTATAGGATCTGCCATGGGAATCCAATCCGGATACAGTTCGCAGCTTCTGGGCTCTCTG
 GCTGGGGGAGATCTTCACAGTTTGGCAGTTTCAGCCTCATCAGAAATCATGGGATTTGATC
 TTGCAAAAATGACTCTGTTTGACACAGGACATTCTCCAGGATTTACATTCATCGCGAC
 ACAAGTCACGGGGCTTTGGGACGGATGAAGTTTCATCGCAGTACGGGAAGGCATAGTGGC
 ACAGGGAAGGAATGGCGAACTGAGAACACTTATCAGATAAGTACTGGAAGTGCCAATCA
 TAGTGAAGGCAGCTGTGATCTGATTTTTCTATTTCCCTTGCATGTGCAAAGACTCCATA
 TAGACGGTGCAGTTGCCAATAAATCTTGCACATGCAATCCCTCTGTATGGCTGACAGAAT
 CCATCTTCTTCACTACTCTGAGTATCCTGACTTGCACTGGAGGGGGCCAAACTTGACA
 AACAGACTCCAGTGAAGAACCTCCTTGCCGTTTGTGGCCACGCACTGAGTAGCCTGTG
 TCTGTGTGTCAGTTTCTATCGCAGCCGAAGCCATAGATGGTGACCGAAGGAGAGCTCGG
 GCTCTGACCACAGGAGCAT

Restriction Sites:

Please inquire

ACCN:

NM_001083592

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 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: The open reading frame of this TrueClone was fully sequenced and found to be a perfect match to the protein associated to this reference.

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_001083592.1](#), [NP_001077061.1](#)

RefSeq Size: 2303 bp

RefSeq ORF: 1182 bp

Locus ID: 4919

UniProt ID: [Q01973](#)

Cytogenetics: 1p31.3

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 (2) contains a distinct 3' UTR and lacks an in-frame portion of the 3' coding region, compared to variant 1. The resulting isoform (2) has a shorter C-terminus that lacks a tyrosine kinase catalytic domain, compared to 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.