

Product datasheet for **RC600058**

ROR1 (NM_005012) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ROR1 (NM_005012) Human Tagged ORF Clone
Tag:	DDK-His
Symbol:	ROR1
Synonyms:	dj537F10.1; NTRKR1
Mammalian Cell Selection:	None
Vector:	pCMV6-XL5-DDK-His (PS100068)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RC600058 representing leader sequence plus the extracellular domain region of NM_005012

Red=Cloning site Blue=ORF Green=Tags(s)

GTAATACGACTCACTATAGGGCGGCCGGAATTCGTGACTGGATCTGGTACCGAGGAGATCCGCCCGCCG
CGATCGCC

ATGCACCGCGCCGCGCCGCGGGACGCGCCCGCGCTCTGGCGCTGCTGGCCGCGCTGCTGCTGGCCG
CACGCGGGGCTGCTGCCAAGAAACAGAGCTGTGACTGCTGAATTAGTGCCTACCTCATCATGGAA
CATCTCAAGTGAAGTCAACAAAGATTCTTACCTGACCCTCGATGAACCAATGAATAACATCACCAGCTCT
CTGGGCCAGACAGACTGCACTGCAAAAGTCTCTGGGAATCCACCTCCACCATCCGCTGGTTCAAAA
ATGATGCTCCTGTGTTCCAGGAGCCCCGGAGGCTCTCCTTTGCGTCCACCATCTATGGCTCTCGGCTGCG
GATTAGAAACCTCGACACCACAGACACAGGCTACTTCCAGTGCCTGGCAACAAACGGCAAGGAGGTGGTT
TCTTCCACTGGAGTCTTGTGTTGCAAGTTGGCCCCCTCCACTGCAAGTCCAGGATACTCAGATGAGT
ATGAAGAAGATGGATTCTGTGAGCCATACAGAGGATTGCATGTGCAAGATTTATTGGCAACCGCACCGT
CTATATGGAGTCTTTCACATGCAAGGGGAAATAGAAAATCAGATCAGAGCTGCCTTCACTATGATTGGC
ACTTCCAGTCACTTATCTGATAAGTGTCTCAGTTCGCCATTCTTCCCTGTGCCACTATGCCTTCCCGT
ACTGCGATGAACTTTCATCCGTCCTCCAAAGCCCCGTGACTTGTGTGCGGATGAATGTGAAATCCTGGAGAA
TGTCTGTGTCAAACAGAGTACATTTTTGCAAGATCAAAATCCCATGATTCTGATGAGGCTGAAACTGCCA
AACTGTGAAGATCTCCCCAGCCAGAGAGCCAGAAAGTGCAGAACTGTATCCGGATTGGAATCCCATGG
CAGATCCTATAAATAAAAATCACAAGTGTATAACAGCACAGGTGTGGACTACCGGGGACCAGTCAAGTGT
GACCAAAATCAGGGCGCCAGTCCAGCCATGGAATTCAGTATCCCCACACACACTTTACCCGCCCTT
CGTTTCCAGAGCTGAATGGAGGCCATTCTACTGCCGCAACCCAGGGAATCAAAAGGAAGCTCCCTGGT
GCTTACCTTGGATGAAAATTTAAGTCTGATCTGTGTGACATCCAGCGTGCATTCAAAGGATTCCAA
GGAGAAGAATAAAATGGAATCCTGTAC

ACGCGTTCAGGCGACTACAAGGATGACGACGATAAGGGATCTCATCATCACCATCACCATTAATGAGATC
TGGTACCGATATCAAGCTTGTGACTCTAGA

Protein Sequence:

>RC600058 representing signal peptide plus the extracellular domain region of NM_005012

Red=Cloning sites Green= DDK and 6XHIS Tags

MHRPRRRGTRPPLLALLAALLLAARGAAQETELSVSAELVPTSSWNISSELNKDSYLLTDEPMNITTS
LGQTAELHCKVSGNPPPTIRWFKNDAPVVQEPRLSFRSTIYGSRLRIRNLDTTDTGYFQCVATNGKEVV
SSTGVLFVKFGPPPTASPGYSDEYEEDGFCQPYRGIACARFIGNRTVYMESLHMQGEIENQITAAFTMIG
TSSHLSDKCSQFAIPSLCHYAFPYCDETSVVPKPRDLCRDECEILENVLQTEYIFARSNPMLMRLKLP
NCELDLPQESPEAANCIRIGIPMADPINKNHKCYNSTGVDYRGTVSVTKSGRQCQPWNSQYPHTHTFTAL
RFPELNGGHSYCRNPGNQKEAPWCFTLDENFKSDLCDIPACDSKDSKEKNKMEILY

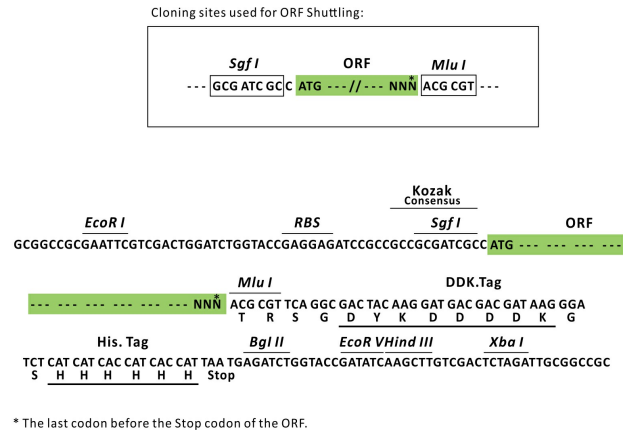
TRSGTRSGDYKDDDDKGSHHHHHH

Chromatograms:

https://cdn.origene.com/chromatograms/mk8117_g10.zip

Restriction Sites:

SgfI-MluI

Cloning Scheme:


ACCN: NM_005012

ORF Size: 1218 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 extra cellular domain of the protein 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:**
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_005012.3](#), [NP_005003.2](#)

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
MW:	45.5 kDa
Gene Summary:	<p>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]</p>