

Product datasheet for **MC222733**

Ror1 (NM_013845) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Ror1 (NM_013845) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Ror1
Synonyms:	2810404D04Rik; Ntr; Ntrkr1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >NCBI ORF sequence for NM_013845, the custom clone sequence may differ by one or more nucleotides

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ATGACCCGGCCGCGCCGCGGGACGCGCCCGCCACCGCTGGCGCTGCTGGCCGCGCTGCTGCTGGCCG
CACGCGGGGCTGATGCCAAGAAACAGAGTTGTCAGTCAGTGCTGAGCTGGTGCCTACCTCGTCCTGGAA
CACTTCAAGTGAATCGACAAAGTTCTTACTTAACCCTTGATGAGCCGATGAATAACATCACACAGTCC
CTGGGGCAGACTGCAGAACTGCACTGCAAAGTGCTGGGAATCCACCTCCAGTATCCGCTGGTTCAAGA
ATGATGCACCTGTGGTCCAAGAACCTCGGAGAATCTCCTTCCGGGCAACCAACTATGGCTCTCGGCTGCG
GATTAGAAACCTTGACACCACAGACACTGGTTACTTCCAGTGTGTGGCAACAAATGGCAAGAAAGTGGTG
TCTACCACTGGTGTCTGTTTGTCAAATTTGGGCCTCCTCCGACCGCAAGCCAGGATCCTCAGATGAGT
ATGAAGAAGATGGATTCTGTGACCCGTACCGAGGCATTGCATGTGCACGATTTATTGGCAACCGCACTGT
GTATATGGAGTCTTTGCATATGCAGGGGAAATAGAAAATCAGATCACAGCTGCCTTCCACATGATTGGC
ACCTCCAGCCATTTATCTGATAAGTGTCTCAGTTCGCCATCCCTTCTTGTGCCACTACGCCTTCCCGT
ACTGTGACGAAACCTCATCTGTCCAAAGCCCCGTGACTTGTGTGCTGATGAATGTGAAGTGTGGAGAA
TGTCTGTGTGACAGAGTACATTTTTGCCAGATCAAATCCCATGATTTTGATGAGGCTGAAGTTACCA
AACTGTGAGGATCTCCCCAGCCAGAGAGCCCGGAAGCTGCAAACCTGCATACGGATTGGCATTCCCATGG
CGGATCTATAAAATAAAATCACAAATGCTACAATAGCACGGGTGAGACTACCGGGGAACCGTCAGTGT
GACCAAGTCTGGACGCCAGTGCCAGCCATGGAATTCTCAGTACCCACACACACAGCTTCACTGCTCTG
CGCTTCCGGAGCTCAACGGAGGCCACTCCTACTGCCGAACCCCTGGCAACCAGAAGGAAGCTCCCTGGT
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GCTGCCTCTTCCGCTGTGCGTTTCATGGAAGAATTGGGTGAATGTACCTTTGAAAAATCTATAAGGGC
CATCTCTACCTCCAGGCATGGACCATGCTCAGCTGGTGGCTATCAAACCTTGAAGACTATAACAACC
CCCAGCAGTGGACAGAATTTCAACAGGAAGCCTCTCTCATGGTGAACACTACACCACCCCAATATTGTATG
CCTCCTCGGAGCCGTACCCAGGAACAACCTGTGTGATGCTCTTTGAGTATATGAACCAGGAGACCTC
CACGAGTTCCTCATCATGCGATCCCGCATTCCGATGTCGGCTGTAGCAGTGTGAAGATGGGACGGTCA
AATCCAGCCTGGACCATGGTGATTTCTTACACATAGCAATTCAGATCGCAGCTGGCATGGAGTACCTGTC
TAGTCACTTCTTGTGACAAGGACCTTGACGCTCGCAACATTTAATTGGAGAGCAACTGCATGTAAAA
ATTTAGATCTTGGGCTTCCAGAGAAATTTACTGTGCTGATTACTATAGGGTACAGAGTAAAGTCTTCC
TGCCCATCCGCTGGATGCCCCCTGAGGCCATCATGTACGGCAAATTCCTCCTCGATTCCGATATCTGGTC
TTTCGGGGTTGTGTTGTGGGAGATTTTCAGCTTTGGACTCCAGCCATATTATGGGTTTAGTAATCAGGAA
GTGATTGAAATGGTGCAGGAGCGGCAGCTTACCATGTTCTGAAGACTGCCCGCCGCGCATGTACAGCC
TCATGACCGAGTGTGGAATGAGATACCTTCCAGGAGACCACGCTTTAAAGACATCCACGTCCGGCTTCG
ATCCTGGGAGGGCCTCTCAAGTCACACCAGCTCTACCACCCCTCGGGTGGAAATGCCACCACGCAGACC
ACTTCCCTCAGTGCCAGCCCTGTGAGTAACCTCAGCAACCCCGATTTCCAATTACATGTTCCCGAGCC
AAGGGATTACACCCAGGGTCAGATCGCTGGTTTCATTGGCCAGCGATACCTCAGAACCAGCGCTTCA
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CCTCCCAGGGTGATTAGCACTGCCACCTCCGAAGAGTCGGTCCCAAGCAGCGCCAGCGGATCGACCA
GCACTGGCCATGTGGCCAGCTTGCCTCATCAGGATCCAATCAGGAAGCAAACGTTCTTTGCTACCCCA
CATGTCAATTCAAATCACCCCTGGTGGAAATGGGTATCACTGTTTTTGGCAACAAATCTCAAAAACCGTAC
AAAATAGACTCAAAACAATCGTCTTTGCTTGGGGACTCCCATATCCATGGGCACACCGAATCTATGATT
CTGCAGAAAGTAA
    
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Restriction Sites: SgfI-MluI
ACCN: NM_013845
Insert Size: 2814 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 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: [BC138794](#), [AAI38795](#)

RefSeq Size: 3404 bp

RefSeq ORF: 2814 bp

Locus ID: 26563

UniProt ID: [Q9Z139](#)

Cytogenetics: 4 45.71 cM

Gene Summary: This gene encodes a receptor tyrosine kinase that has been implicated in nervous system development, specifically in the maintenance of neural progenitor cell fate, neurite extension and synapse formation. The encoded protein, likely a pseudokinase that lacks catalytic activity, may also regulate adipogenesis. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Aug 2015]

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 to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.