OriGene Technologies, Inc.
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

Product datasheet for RC214967

ROR1 (NM_005012) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ROR1 (NM_005012) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	ROR1
Synonyms:	dJ537F10.1; NTRKR1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

View online »

This product is to be used for laboratory only. Not for diagnostic or therapeutic use.
©2024 OriGene Technologies, Inc., 9620 Medical Center Drive, Ste 200, Rockville, MD 20850, US

ORF Nucleotide Sequence:

>RC214967 representing NM_005012
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGCACCGGCCGCGCCGCCGCGGGACGCGCCCGCCGCTCCTGGCGCTGCTGGCCGCGCTGCTGCTGGCCG
CACGCGGGGCTGCTGCCCAAGAAACAGAGCTGTCAGTCAGTGCTGAATTAGTGCCTACCTCATCATGGAA
CATCTCAAGTGAACTCAACAAAGATTCTTACCTGACCCTTGATGAACCAATGAATAACATCACCACGTCT
CTGGGCCAGACAGCAGAACTGCACTGCAAAGTCTCTGGGAATCCACCTCCCACCATCCGCTGGTTCAAAA
ATGATGCTCCTGTGGTCCAGGAGCCCCGGAGGCTCTCCTTTCGGTCCACCATCTATGGCTCTCGGCTGCG
GATTAGAAACCTCGACACCACAGACACAGGCTACTTCCAGTGCGTGGCAACAAACGGCAAGGAGGTGGTT
TCTTCCACTGGAGTCTTGTTTGTCAAGTTTGGCCCCCCTCCCACTGCAAGTCCAGGATACTCAGATGAGT
ATGAAGAAGATGGATTCTGTCAGCCATACAGAGGGATTGCATGTGCAAGATTTATTGGCAACCGCACCGT
CTATATGGAGTCTTTGCACATGCAAGGGGAAATAGAAAATCAGATCACAGCTGCCTTCACTATGATTGGC
ACTTCCAGTCACTTATCTGATAAGTGTTCTCAGTTCGCCATTCCTTCCCTGTGCCACTATGCCTTCCCGT
ACTGCGATGAAACTTCATCCGTCCCAAAGCCCCGTGACTTGTGTCGCGATGAATGTGAAATCCTGGAGAA
TGTCCTGTGTCAAACAGAGTACATTTTTGCAAGATCAAATCCCATGATTCTGATGAGGCTGAAACTGCCA
AACTGTGAAGATCTCCCCCAGCCAGAGAGCCCAGAAGCTGCGAACTGTATCCGGATTGGAATTCCCATGG
CAGATCCTATAAATAAAAATCACAAGTGTTATAACAGCACAGGTGTGGACTACCGGGGGACCGTCAGTGT
GACCAAATCAGGGCGCCAGTGCCAGCCATGGAATTCCCAGTATCCCCACACACACACTTTCACCGCCCTT
CGTTTCCCAGAGCTGAATGGAGGCCATTCCTACTGCCGCAACCCAGGGAATCAAAAGGAAGCTCCCTGGT
GCTTCACCTTGGATGAAAACTTTAAGTCTGATCTGTGTGACATCCCAGCTTGCGATTCAAAGGATTCCAA
GGAGAAGAATAAAATGGAAATCCTGTACATACTAGTGCCAAGTGTGGCCATTCCCCTGGCCATTGCTTTA
CTCTTCTTCTTCATTTGCGTCTGTCGGAATAACCAGAAGTCATCGTCGGCACCAGTCCAGAGGCAACCAA
AACACGTCAGAGGTCAAAATGTAGAGATGTCAATGCTGAATGCATATAAACCCAAGAGCAAGGCTAAAGA
GCTACCTCTTTCTGCTGTACGCTTTATGGAAGAATTGGGTGAGTGTGCCTTTGGAAAAATCTATAAAGGC
CATCTCTATCTCCCAGGCATGGACCATGCTCAGCTGGTTGCTATCAAGACCTTGAAAGACTATAACAACC
CCCAGCAATGGATGGAATTTCAACAAGAAGCCTCCCTAATGGCAGAACTGCACCACCCCAATATTGTCTG
CCTTCTAGGTGCCGTCACTCAGGAACAACCTGTGTGCATGCTTTTTGAGTATATTAATCAGGGGGATCTC
CATGAGTTCCTCATCATGAGATCCCCACACTCTGATGTTGGCTGCAGCAGTGATGAAGATGGGACTGTGA
AATCCAGCCTGGACCACGGAGATTTTCTGCACATTGCAATTCAGATTGCAGCTGGCATGGAATACCTGTC
TAGTCACTTCTTTGTCCACAAGGACCTTGCAGCTCGCAATATTTTAATCGGAGAGCAACTTCATGTAAAG
ATTTCAGACTTGGGGCTTTCCAGAGAAATTTACTCCGCTGATTACTACAGGGTCCAGAGTAAGTCCTTGC
TGCCCATTCGCTGGATGCCCCCTGAAGCCATCATGTATGGCAAATTCTCTTCTGATTCAGATATCTGGTC
CTTTGGGGTTGTCTTGTGGGAGATTTTCAGTTTTGGACTCCAGCCATATTATGGATTCAGTAACCAGGAA
GTGATTGAGATGGTGAGAAAACGGCAGCTCTTACCATGCTCTGAAGACTGCCCACCCAGAATGTACAGCC
TCATGACAGAGTGCTGGAATGAGATTCCTTCTAGGAGACCAAGATTTAAAGATATTCACGTCCGGCTTCG
GTCCTGGGAGGGACTCTCAAGTCACACAAGCTCTACTACTCCTTCAGGGGGAAATGCCACCACACAGACA
ACCTCCCTCAGTGCCAGCCCAGTGAGTAATCTCAGTAACCCCAGATATCCTAATTACATGTTCCCGAGCC
AGGGTATTACACCACAGGGCCAGATTGCTGGTTTCATTGGCCCGCCAATACCTCAGAACCAGCGATTCAT
TCCCATCAATGGATACCCAATACCTCCTGGATATGCAGCGTTTCCAGCTGCCCACTACCAGCCAACAGGT
CCTCCCAGAGTGATTCAGCACTGCCCACCTCCCAAGAGTCGGTCCCCAAGCAGTGCCAGTGGGTCGACTA
GCACTGGCCATGTGACTAGCTTGCCCTCATCAGGATCCAATCAGGAAGCAAATATTCCTTTACTACCACA
CATGTCAATTCCAAATCATCCTGGTGGAATGGGTATCACCGTTTTTGGCAACAAATCTCAAAAACCCTAC
AAAATTGACTCAAAGCAAGCATCTTTACTAGGAGACGCCAATATTCATGGACACACCGAATCTATGATTT
CTGCAGAACTG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

This product is to be used for laboratory only. Not for diagnostic or therapeutic use.
©2024 OriGene Technologies, Inc., 9620 Medical Center Drive, Ste 200, Rockville, MD 20850, US

Protein Sequence:

>RC214967 representing NM_005012
Red=Cloning site Green=Tags(s)

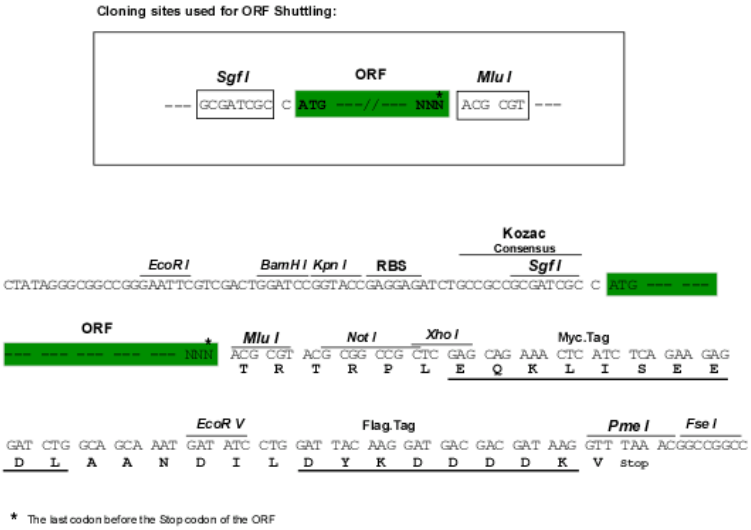
MHRPRRRGTRPPLLALLAALLLAARGAAAQETELSVSAELVPTSSWNISSELNKDSYLTLDEPMNNITTS
LGQTAELHCKVSGNPPPTIRWFKNDAPVVQEPRRLSFRSTIYGSRLRIRNLDTTDTGYFQCVATNGKEVV
SSTGVLFVKFGPPPTASPGYSDEYEEDGFCQPYRGIACARFIGNRTVYMESLHMQGEIENQITAAFTMIG
TSSHLSDKCSQFAIPSLCHYAFPYCDETSSVPKPRDLCRDECEILENVLCQTEYIFARSNPMILMRLKLP
NCEDLPQPESPEAANCIRIGIPMADPINKNHKCYNSTGVDYRGTVSVTKSGRQCQPWNSQYPHTHTFTAL
RFPELNGGHSYCRNPGNQKEAPWCFTLDENFKSDLCDIPACDSKDSKEKNKMEILYILVPSVAIPLAIAL
LFFFICVCRNNQKSSSAPVQRQPKHVRGQNVEMSMLNAYKPKSKAKELPLSAVRFMEELGECAFGKIYKG
HLYLPGMDHAQLVAIKTLKDYNNPQQWMEFQQEASLMAELHHPNIVCLLGAVTQEQPVCMLFEYINQGDL
HEFLIMRSPHSDVGCSSDEDGTVKSSLDHGDFLHIAIQIAAGMEYLSSHFFVHKDLAARNILIGEQLHVK
ISDLGLSREIYSADYYRVQSKSLLPIRWMPPEAIMYGKFSSDSDIWSFGVVLWEIFSFGLQPYYGFSNQE
VIEMVRKRQLLPCSEDCPPRMYSLMTECWNEIPSRRPRFKDIHVRLRSWEGLSSHTSSTTPSGGNATTQT
TSLSASPVSNLSNPRYPNYMFPSQGITPQGQIAGFIGPPIPQNQRFIPINGYPIPPGYAAFPAAHYQPTG
PPRVIQHCPPPKSRSPSSASGSTSTGHVTSLPSSGSNQEANIPLLPHMSIPNHPGGMGITVFGNKSQKPY
KIDSKQASLLGDANIHGHTESMISAEL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6049_b01.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_005012

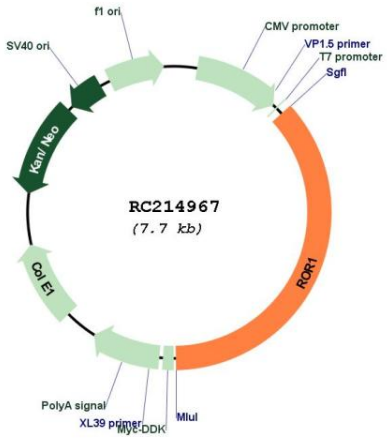
ORF Size: 2811 bp

This product is to be used for laboratory only. Not for diagnostic or therapeutic use.
©2024 OriGene Technologies, Inc., 9620 Medical Center Drive, Ste 200, Rockville, MD 20850, US

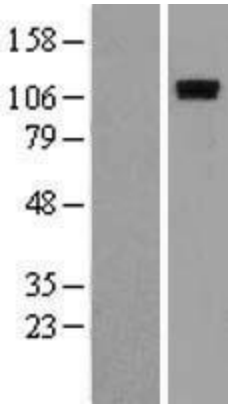
OTI Disclaimer:	The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially 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 complete ORF 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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	NM_005012.4
RefSeq Size:	3358 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:	104.1 kDa
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]

This product is to be used for laboratory only. Not for diagnostic or therapeutic use.
©2024 OriGene Technologies, Inc., 9620 Medical Center Drive, Ste 200, Rockville, MD 20850, US

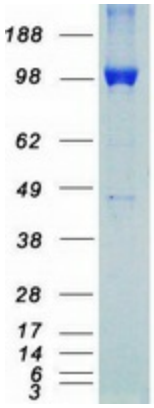
Product images:



Circular map for RC214967



Western blot validation of overexpression lysate (Cat# [LY401558]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC214967 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified ROR1 protein (Cat# [TP314967]). The protein was produced from HEK293T cells transfected with ROR1 cDNA clone (Cat# RC214967) using MegaTran 2.0 (Cat# [TT210002]).

This product is to be used for laboratory only. Not for diagnostic or therapeutic use.
©2024 OriGene Technologies, Inc., 9620 Medical Center Drive, Ste 200, Rockville, MD 20850, US