ROR1 cDNA Clone – Receptor Tyrosine Kinase-Like Orphan Receptor 1 (Human)

PRODUCT OVERVIEW

Product Name	ROR1, cDNA Clone
Full Product Name	ROR1 cDNA Clone
Product Gene Name	ROR1 cdna clone
Sequence	atgcaccggc cgcgccgccg cgggacgcgc ccgccgctcc tggcgctgct ggccgcgctg ctgctggccg cacgcggggc tgctgcccaa gaaacagagc tgtcagtcag tgctgaatta gtgcctacct catcatggaa catctcaagt gaactcaaca aagattctta cctgaccctt gatgaaccaa tgaataacat caccacgtct ctgggccaga cagcagaact gcactgcaaa gtctctggga atccacctcc caccatccgc tggttcaaaa atgatgctcc tgtggtccag gagccccgga ggctctcctt tcggtccacc atctatggct ctcggctgcg gattagaaac ctcgacacca cagacacagg ctacttccag tgcgtggcaa caaacggcaa ggaggtggtt tcttccactg gagtcttgtt tgtcaagttt ggcccccctc ccactgcaag tccaggatac tcagatgagt atgaagaaga tggattctgt cagccataca gagggattgc atgtgcaaga tttattggca accgcaccgt ctatatggag tctttgcaca tgcaagggga aatagaaaat cagatcacag ctgccttcac tatgattggc acttccagtc acttatctga taagtgttct cagttcgcca ttccttccct gtgccactat gccttcccgt actgcgatga aacttcatcc gtcccaaagc cccgtgactt gtgtcgcgat gaatgtgaaa tcctggagaa tgtcctgtgt caaacagagt acatttttgc aagatcaaat cccatgattc tgatgaggct gaaactgcca aactgtgaag atctccccca gccagagagc ccagaagctg cgaactgtat ccggattgga attcccatgg cagatcctat aaataaaaat cacaagtgtt ataacagcac aggtgtggac taccggggga ccgtcagtgt gaccaaatca gggcgccagt gccagccatg gaattcccag tatccccaca cacacacttt caccgccctt cgtttcccag agctgaatgg aggccattcc tactgccgca acccagggaa tcaaaaggaa gctccctggt gcttcacctt ggatgaaaac tttaagtctg atctgtgtga catcccagct tgcggtaaat ag
Molecular Weight	43,826 Da
OMIM	602336
Vector	Please Inquire
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for ROR1 cdna clone	MBS1272182 is a cDNA clone targeting ROR1.
Other Notes	Small volumes of ROR1 cdna clone vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for ROR1. It may not necessarily be applicable to this product.

NCBI GI #	13623530
NCBI GeneID	4919
NCBI Accession #	BC006374
UniProt Secondary Accession #	Q5VVX6; Q66K77; Q92776
UniProt Related Accession #	Q01973
NCBI Official Full Name	Homo sapiens receptor tyrosine kinase-like orphan receptor 1, mRNA
NCBI Official Synonym Full Names	receptor tyrosine kinase like orphan receptor 1
NCBI Official Symbol	ROR1
NCBI Official Synonym Symbols	NTRKR1; dJ537F10.1
UniProt Protein Name	Inactive tyrosine-protein kinase transmembrane receptor ROR1
UniProt Synonym Protein Names	Neurotrophic tyrosine kinase, receptor-related 1

Protein Family	Inactive tyrosine-protein kinase transmembrane receptor
UniProt Gene Name	ROR1
UniProt Synonym Gene Names	NTRKR1
UniProt Entry Name	ROR1_HUMAN
NCBI Protein Information	inactive tyrosine-protein kinase transmembrane receptor ROR1
NCBI Summary for ROR1	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]
UniProt Comments for ROR1	ROR1: Tyrosine-protein kinase receptor whose role is not yet clear. Expressed strongly in human heart, lung and kidney, but weakly in the CNS. Isoform Short is strongly expressed in fetal and adult CNS and in a variety of human cancers, including those originating from CNS or PNS neuroectoderm. Belongs to the protein kinase superfamily. Tyr protein kinase family. ROR subfamily. 3 isoforms of the human protein are produced by alternative splicing. Protein type: Membrane protein, integral; EC 2.7.10.1; Protein kinase, TK; Kinase, protein; Protein kinase, tyrosine (receptor); TK group; Ror family Chromosomal Location of Human Ortholog: 1p31.3 Cellular Component: cytoplasm; integral to plasma membrane; plasma membrane; receptor complex Molecular Function: protein binding; transmembrane receptor protein tyrosine kinase activity; Wnt-protein binding
Research Articles on ROR1	**1.** the b-catenin-independent WNT score correlated with reduced overall survival only in the metastasized situation . This is in line with the in vitro results of the alternative WNT receptors ROR1 and ROR2, which foster invasion
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