

Product datasheet for SC109975

DR3 (TNFRSF25) (NM_003790) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	DR3 (TNFRSF25) (NM_003790) Human Untagged Clone
Tag:	Tag Free
Symbol:	DR3
Synonyms:	APO-3; DDR3; DR3; GEF720; LARD; PLEKHG5; TNFRSF12; TR3; TRAMP; WSL-1; WSL-LR
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC109975 sequence for NM_003790 edited (data generated by NextGen Sequencing)

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ATGGAGCAGCGCCGCGGGCTGCGCGCGGTGGCGCGCGCTCCTCCTGGTGCTGCTG
GGGGCCCGGGCCAGGGCGCACTCGTAGCCCCAGGTGTGACTGTGCCGTGACTTCCAC
AAGAAGATTGGTCTGTTTTGTTGAGAGGCTGCCAGCGGGCACTACCTGAAGGCCCT
TGCACGGAGCCCTGCGGCAACTCCACCTGCCTTGTGTGCCCAAGACACCTTCTTGCC
TGGGAGAACCACCATAATTCTGAATGTGCCGCTGCCAGGCTGTGATGAGCAGGCTCC
CAGGTGGCGTGGAGAACTGTTCAAGCAGTGGCCGACACCCGCTGTGGCTGAAGCCAGGC
TGGTTTGTGGAGTGCCAGGTGAGCAATGTGTCAGCAGTTCACCTTCTACTGCCAACCA
TGCTTAGACTGCGGGCCCTGCACCGCCACACAGGCTACTCTGTTCCCGCAGAGATACT
GACTGTGGGACCTGCCTGCCTGGCTTCTATGAACATGGCGATGGCTGCGTGCCTGCCCC
ACGAGCACCTGGGGAGCTGTCCAGAGCGCTGTGCCGCTGTCTGTGGCTGGAGGCAGATG
TTCTGGGTCCAGGTGCTCCTGGCTGGCCTTGTGGTCCCCCTCCTGCTTGGGGCCACCCTG
ACCTACACATAACCGCACTGCTGGCCTCACAAAGCCCTGGTTACTGCAGATGAAGCTGGG
ATGGAGGCTCTGACCCCAACCGGCCACCCATCTGTACCCCTTGGACAGCGCCACACC
CTTCTAGCACCTCCTGACAGCAGTGAGAAGATCTGCACCGTCCAGTTGGTGGGTAACAGC
TGGACCCCTGGCTACCCGAGACCCAGGAGGCGCTCTGCCCGCAGGTGACATGGTCTGG
CCAGCCGCTCGCCAGCCATGATGCTGCAGCCGGGCCCGCAGCTCTACGACGTGATGGAC
GCGGTCCCAGCGCGCGCTGGAAGGAGTTCGTGCGCACGCTGGGGCTGCGCGAGGCAGAG
ATCGAAGCCGTGGAGGTGGAGATCGGCCCTTCCGAGACCAGCAGTACGAGATGCTCAAG
CGCTGGCGCCAGCAGAGCCCGCGGGCCTCGGAGCCGTTTACGCGGCCCTGGAGCGCATG
GGGCTGGACGGCTGCGTGAAGACTTGCAGCCGCTGCAGCGCGGCCCGTGA

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Clone variation with respect to NM_003790.2



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5' Read Nucleotide Sequence: >OriGene 5' read for NM_003790 unedited
 ACGGATTTTGTAAATCACGATTCATATAGGCGGCCGCAATTTCGCACGAGNAGGCGGAA
 CCTCGACGGGCAGAGAGCACGGAGCCGGAAGCCCTGGGCGCCCGTCCGAGGGCTATGG
 AGCAGCGGCCGCGGGGCTGCGCGCGGTGGCGCGGCGCTCCTCCTGGTGTCTGGGGG
 CCCGGGCCAGGGCGGCACTCGTAGCCCCAGGTGTGACTGTGCCGGTGACTTCCACAAGA
 AGATTGGTCTGTTTTGTGCAGAGGCTGCCAGCGGGGCACTACCTGAAGGCCCTTGCA
 CGGAGCCCTGCGGCAACTCCACCTGCCTGTGTGTCCCCAAGACACCTTCTTGGCCTGGG
 AGAACCACATAATTCTGAATGTGCCCGCTGCCAGGCCTGTGATGAGCAGGCCTCCCAGG
 TGGCGCTGGAGAAGTGTTCAGCAGTGGCCGACACCCGCTGTGGCTGTAAGCCAGGCTGGT
 TTGTGGAGTGCCAGGTCAGCCAATGTGTGAGCAGTTCACCCCTTACTGCCAACCATGCC
 TAGACTGCGGGGCCCTGCACCGCCACACACGGCTACTCTGTTCCCGCAGAGATACTGACT
 GTGGGACCTGCCTGCCTGGCTTCTATGAACATGGCGATGGCTGCGTGTCTGCCACGA
 GCACCTGGGGAGCTGTCCAGAGCGCTGTGCCGTGTCTGTGGCTGGAGGCAGATGTTCT
 GGGTCCANGGTGCTGTGGCTGGCCTTGTGGTCCNCTCCTGCTTGGGGCCACCCTGACCT
 ACACATACCGCCACTGCTGGGCCTCACAGCCCTGGTACTGCANATGAAGCTGGGATGGG
 AGCTCTGACCCACCCACGGCCACCCATCTGTACCCCTTGGACAGCGCCACAACCTCT
 AGCACCTCCTGAAGGCAGTGAGAAGATCTGCCACGGTCCAGTGGTTGGGTAACAGCTGGA
 CCCTGGCTACCCCCAGACCAGGAAGCGCTTGGCGCN

3' Read Nucleotide Sequence: >OriGene 3' read for NM_003790 unedited
 CGGCCTCTATGNACCGCGCCGATTCTANGATCGGTTTTTTTTTTTTTTTTTTTTTTTGT
 TTTCTTTCCAGATTTAATACCGCATCTCAGCCAACTCCGGCCGAGAAGTTGAGAAATG
 TCTTACCCCTCTCGACATTCGTTCGTCTTCTCGCCTTGGCTGGAGCGATAGGGGCG
 AGCAGGGGTGGGCGCGCTGGTGTCTACGCAGGGCCGTGCCAGCGGCTTAATAAGTGA
 CATAAAATGTCTACACGCATAAGTAACCGTACTTAGGGCTTCTGCAAGGGCCACCAGAGC
 GCCTAGGTGGCAAGTGGGCGCCGTGTACGGGCGCGCTGCAAGCGGCTGCGCAAGTCTT
 CCACGCAGCCGTCCAGCCCCATGCGCTCCAGGGCCGCGTAAACGGCTCCGAGGCCCGCG
 GCTGTCTGGCGCCAGCGCTTGAGCATCTCGTACTGCTGGTCTCGGAAGCGGCCGATCT
 CCACCTCCACGGCTTCGATCTCTGCCTCGCGCAGCCCCAGCGTGCACGAACTCCTTCC
 AGCGCCGCGCTGGGACCGCGTCCATCACGTCGTAAGCTGCGGGCCCGGCTGCAGCATCA
 TGGCTGGCGAGCCGGCTGGGACTCTGGCGAGAGTGTGGGCGCAGCAGCGGGGCCAAGAG
 CTCTGCTGGGCAACTGGTCCCCAGACCATGTACCTGCGGGCAGAGCGCCTCCTGGGTCT
 CGGGGTAGCCAGGGGTGAGCTGTTACCCCAACTGGACGGTGCAGATACTCTACTGCT
 GTCAAGAAGTGCTANAAAGGTGTGGGCGCTGTCAAAGGTGACANATGGTGGGCGGGGTG
 GGGTCAGAGCCTCATTCCACCTCATTGAGT

Restriction Sites: NotI-NotI

ACCN: NM_003790

Insert Size: 1650 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: [NM_003790.2](#), [NP_003781.1](#)

RefSeq Size: 1638 bp

RefSeq ORF: 1254 bp

Locus ID: 8718

UniProt ID: [Q93038](#)

Cytogenetics: 1p36.31

Domains: DEATH, TNFR

Protein Families: Druggable Genome, Transmembrane

Protein Pathways: Cytokine-cytokine receptor interaction

Gene Summary:

The protein encoded by this gene is a member of the TNF-receptor superfamily. This receptor is expressed preferentially in the tissues enriched in lymphocytes, and it may play a role in regulating lymphocyte homeostasis. This receptor has been shown to stimulate NF-kappa B activity and regulate cell apoptosis. The signal transduction of this receptor is mediated by various death domain containing adaptor proteins. Knockout studies in mice suggested the role of this gene in the removal of self-reactive T cells in the thymus. Multiple alternatively spliced transcript variants of this gene encoding distinct isoforms have been reported, most of which are potentially secreted molecules. The alternative splicing of this gene in B and T cells encounters a programmed change upon T-cell activation, which predominantly produces full-length, membrane bound isoforms, and is thought to be involved in controlling lymphocyte proliferation induced by T-cell activation. [provided by RefSeq, Jul 2008]

Transcript Variant: This variant (2) lacks two coding segments, both of which result in a frameshift, when compared to variant 1. The resulting isoform (2) has a shorter and distinct internal region, as compared to isoform 1.