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Product datasheet for RC218838

DR3 (TNFRSF25) (NM_003790) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	DR3 (TNFRSF25) (NM_003790) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	DR3
Synonyms:	APO-3; DDR3; DR3; GEF720; LARD; PLEKHG5; TNFRSF12; TR3; TRAMP; WSL-1; WSL-LR
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

>RC218838 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGAGCAGCGGCCGCGGGGCTGCGCGGCGGTGGCGGCGGCGCTCCTCCTGGTGCTGCTGGGGGCCCGGG
CCCAGGGCGGCACTCGTAGCCCCAGGTGTGACTGTGCCGGTGACTTCCACAAGAAGATTGGTCTGTTTTG
TTGCAGAGGCTGCCCAGCGGGGCACTACCTGAAGGCCCCTTGCACGGAGCCCTGCGGCAACTCCACCTGC
CTTGTGTGTCCCCAAGACACCTTCTTGGCCTGGGAGAACCACCATAATTCTGAATGTGCCCGCTGCCAGG
CCTGTGATGAGCAGGCCTCCCAGGTGGCGCTGGAGAACTGTTCAGCAGTGGCCGACACCCGCTGTGGCTG
TAAGCCAGGCTGGTTTGTGGAGTGCCAGGTCAGCCAATGTGTCAGCAGTTCACCCTTCTACTGCCAACCA
TGCCTAGACTGCGGGGCCCTGCACCGCCACACACGGCTACTCTGTTCCCGCAGAGATACTGACTGTGGGA
CCTGCCTGCCTGGCTTCTATGAACATGGCGATGGCTGCGTGTCCTGCCCCACGAGCACCCTGGGGAGCTG
TCCAGAGCGCTGTGCCGCTGTCTGTGGCTGGAGGCAGATGTTCTGGGTCCAGGTGCTCCTGGCTGGCCTT
GTGGTCCCCCTCCTGCTTGGGGCCACCCTGACCTACACATACCGCCACTGCTGGCCTCACAAGCCCCTGG
TTACTGCAGATGAAGCTGGGATGGAGGCTCTGACCCCACCACCGGCCACCCATCTGTCACCCTTGGACAG
CGCCCACACCCTTCTAGCACCTCCTGACAGCAGTGAGAAGATCTGCACCGTCCAGTTGGTGGGTAACAGC
TGGACCCCTGGCTACCCCGAGACCCAGGAGGCGCTCTGCCCGCAGGTGACATGGTCCTGGGACCAGTTGC
CCAGCAGAGCTCTTGGCCCCGCTGCTGCGCCCACACTCTCGCCAGAGTCCCCAGCCGGCTCGCCAGCCAT
GATGCTGCAGCCGGGCCCGCAGCTCTACGACGTGATGGACGCGGTCCCAGCGCGGCGCTGGAAGGAGTTC
GTGCGCACGCTGGGGCTGCGCGAGGCAGAGATCGAAGCCGTGGAGGTGGAGATCGGCCGCTTCCGAGACC
AGCAGTACGAGATGCTCAAGCGCTGGCGCCAGCAGCAGCCCGCGGGCCTCGGAGCCGTTTACGCGGCCCT
GGAGCGCATGGGGCTGGACGGCTGCGTGGAAGACTTGCGCAGCCGCCTGCAGCGCGGCCCG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

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Protein Sequence:

>RC218838 protein sequence
Red=Cloning site Green=Tags(s)

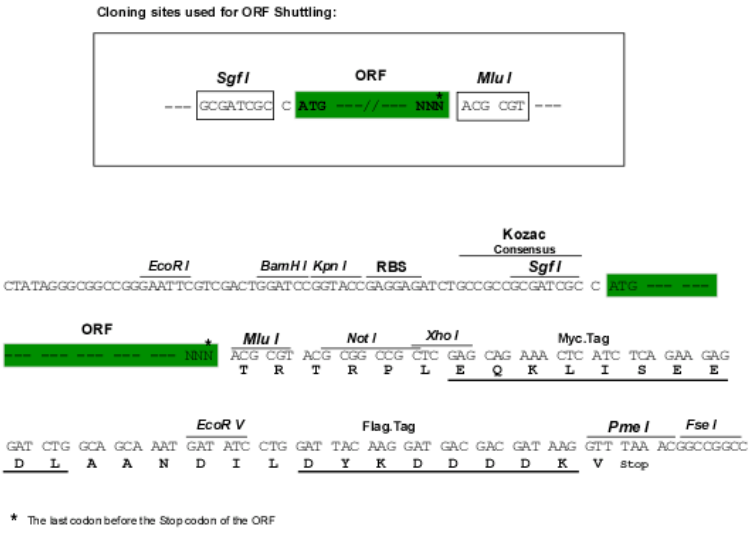
MEQRPRGCAAVAAALLLVLLGARAQGGTRSPRCDCAGDFHKKIGLFCCRGCPAGHYLKAPCTEPCGNSTC
LVCPQDTFLAWENHHNSECARCQACDEQASQVALENCSAVADTRCGCKPGWFVECQVSQCVSSSPFYCQP
CLDCGALHRHTRLLCSRRDTDCGTCLPGFYEHGDGCVSCPTSTLGSCPERCAAVCGWRQMFWVQVLLAGL
VVPLLLGATLTYTYRHCWPHKPLVTADEAGMEALTPPPATHLSPLDSAHTLLAPPDSSEKICTVQLVGNS
WTPGYPETQEALCPQVTWSWDQLPSRALGPAAAPTLSPESPAGSPAMMLQPGPQLYDVMDAVPARRWKEF
VRTLGLREAEIEAVEVEIGRFRDQQYEMLKRWRQQQPAGLGAVYAALERMGLDGCVEDLRSRLQRGP

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6610_c06.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_003790

ORF Size: 1251 bp

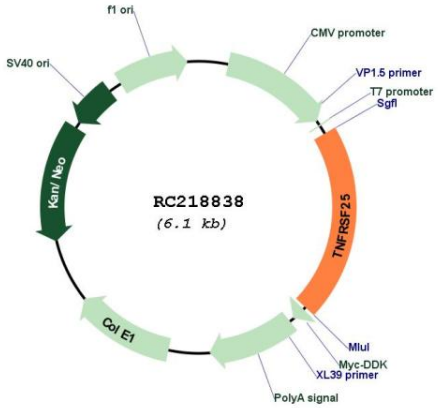
OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially 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 complete ORF with an expression tag. Expression varies depending on the nature of the gene.

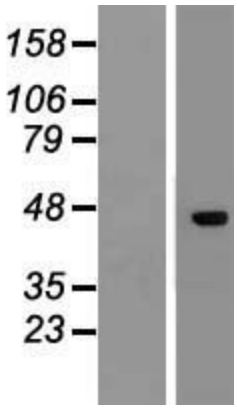
Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

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_003790.3
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
MW:	45.4 kDa
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]

Product images:



Circular map for RC218838



Western blot validation of overexpression lysate (Cat# [LY418426]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC218838 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).