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Product datasheet for SC114967

DR6 (TNFRSF21) (NM_014452) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	DR6 (TNFRSF21) (NM_014452) Human Untagged Clone
Tag:	Tag Free
Symbol:	DR6
Synonyms:	BM-018; CD358; DR6
Mammalian Cell Selection:	None
Vector:	pCMV6-XL5
E. coli Selection:	Ampicillin (100 ug/mL)

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Fully Sequenced ORF:

>OriGene ORF within SC114967 sequence for NM_014452 edited (data generated by NextGen Sequencing)

ATGGGGACCTCTCCGAGCAGCAGCACCGCCCTCGCCTCCTGCAGCCGCATCGCCCGCCGA
GCCACAGCCACGATGATCGCGGGCTCCCTTCTCCTGCTTGGATTCCTTAGCACCACCACA
GCTCAGCCAGAACAGAAGGCCTCGAATCTCATTGGCACATACCGCCATGTTGACCGTGCC
ACCGGCCAGGTGCTAACCTGTGACAAGTGTCCAGCAGGAACCTATGTCTCTGAGCATTGT
ACCAACACAAGCCTGCGCGTCTGCAGCAGTTGCCCTGTGGGGACCTTTACCAGGCATGAG
AATGGCATAGAGAAATGCCATGACTGTAGTCAGCCATGCCCATGGCCAATGATTGAGAAA
TTACCTTGTGCTGCCTTGACTGACCGAGAATGCACTTGCCCACCTGGCATGTTCCAGTCT
AACGCTACCTGTGCCCCCCATACGGTGTGTCCTGTGGGTTGGGGTGTGCGGAAGAAAGGG
ACAGAGACTGAGGATGTGCGGTGTAAGCAGTGTGCTCGGGGTACCTTCTCAGATGTGCCT
TCTAGTGTGATGAAATGCAAAGCATACACAGACTGTCTGAGTCAGAACCTGGTGGTGATC
AAGCCGGGGACCAAGGAGACAGACAACGTCTGTGGCACACTCCCGTCCTTCTCCAGCTCC
ACCTCACCTTCCCCTGGCACAGCCATCTTTCCACGCCCTGAGCACATGGAAACCCATGAA
GTCCCTTCCTCCACTTATGTTCCCAAAGGCATGAACTCAACAGAATCCAACTCTTCTGCC
TCTGTTAGACCAAAGGTACTGAGTAGCATCCAGGAAGGGACAGTCCCTGACAACACAAGC
TCAGCAAGGGGGAAGGAAGACGTGAACAAGACCCTCCCAAACCTTCAGGTAGTCAACCAC
CAGCAAGGCCCCCACCACAGACACATCCTGAAGCTGCTGCCGTCCATGGAGGCCACTGGG
GGCGAGAAGTCCAGCACGCCCATCAAGGGCCCCAAGAGGGGACATCCTAGACAGAACCTA
CACAAGCATTTTGACATCAATGAGCATTTGCCCTGGATGATTGTGCTTTTCCTGCTGCTG
GTGCTTGTGGTGATTGTGGTGTGCAGTATCCGGAAAAGCTCGAGGACTCTGAAAAAGGGG
CCCCGGCAGGATCCCAGTGCCATTGTGGAAAAGGCAGGGCTGAAGAAATCCATGACTCCA
ACCCAGAACCGGGAGAAATGGATCTACTACTGCAATGGCCATGGTATCGATATCCTGAAG
CTTGTAGCAGCCCAAGTGGGAAGCCAGTGGAAAGATATCTATCAGTTTCTTTGCAATGCC
AGTGAGAGGGAGGTTGCTGCTTTCTCCAATGGGTACACAGCCGACCACGAGCGGGCCTAC
GCAGCTCTGCAGCACTGGACCATCCGGGGCCCCGAGGCCAGCCTCGCCCAGCTAATTAGC
GCCCTGCGCCAGCACCGGAGAAACGATGTTGTGGAGAAGATTCGTGGGCTGATGGAAGAC
ACCACCCAGCTGGAAACTGACAAACTAGCTCTCCCGATGAGCCCCAGCCCGCTTAGCCCG
AGCCCCATCCCCAGCCCCAACGCGAAACTTGAGAATTCCGCTCTCCTGACGGTGGAGCCT
TCCCCACAGGACAAGAACAAGGGCTTCTTCGTGGATGAGTCGGAGCCCCTTCTCCGCTGT
GACTCTACATCCAGCGGCTCCTCCGCGCTGAGCAGGAACGGTTCCTTTATTACCAAAGAA
AAGAAGGACACAGTGTTGCGGCAGGTACGCCTGGACCCCTGTGACTTGCAGCCTATCTTT
GATGACATGCTCCACTTTCTAAATCCTGAGGAGCTGCGGGTGATTGAAGAGATTCCCCAG
GCTGAGGACAAACTAGACCGGCTATTCGAAATTATTGGAGTCAAGAGCCAGGAAGCCAGC
CAGACCCTCCTGGACTCTGTTTATAGCCATCTTCCTGACCTGCTGTAG

Clone variation with respect to NM_014452.3

5' Read Nucleotide Sequence:

>OriGene 5' read for NM_014452 unedited
GTTCACATTTGTATACGACTCACTATAGGCGGCCGCGNAATTCGCACGAGGCCGGGAGGC
GGCGGTGGATGCGGCGCTGGGCAGAAGCAGCCGCCGATTCCAGCTGCCCCGCGCGCCCCG
GGCGCCCCTGCGAGTCCCCGGTTCAGCCATGGGGACCTCTCCGAGCAGCAGCACCGCCCT
CGCCTCCTGCAGCCGCATCGCCCGCCGAGCCACAGCCACGATGATCGCGGGCTCCCTTCT
CCTGCTTGGATTCCTTAGCACCACCACAGCTCAGCCAGAACAGAAGGCCTCGAATCTCAT
TGGCACATACCGCCATGTTGACCGTGCCACCGGCCAGGTGCTAACCTGTGACAAGTGTCC
AGCAGGAACCTATGTCTCTGAGCATTGTACCAACACAAGCCTGCGCGTCTGCAGCAGTTG
CCCTGTGGGGACCTTTACCAGGCATGAGAATGGCATAGAGAAATGCCATGACTGTAGTCA
GCCATGCCCATGGCCAATGATTGAGAAATTACCTTGTGCTGCCTTGACTGACCGAGAATG
CACTTGCCCACCTGGCATGTTCCAGTCTAACGCTACCTGTGCCCCCCATACGGTGTGTCC
TGTGGGTTGGGGTGTGCGGAAGAAAGGGACAGAGACTGAGGATGTGCGGTGTAAGCAGTG
TGCTCGGGGTACCTTCTCAGATGTGCCTTCTAGTGTGATGAAATGCAAAGCATACACAGA
CTGTCTGAGTCAGAACCTGGTGGTGATCAAGCCGGGGNACCAAGGAGACAGGACACGTCT
GTGGCACACTCCCGTCCTTCTCCAGCTCCACCTCACCTTTCCCTGGCACAGCCATCTTTT
CACGCCCTGAGCACATGGGAACCCATTGAGTCCCTTCCTCCACTTATGGTCCCAAAGGCA
TGAACTCAACAGAATCCAACTT

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_014452 unedited
GGCCGCGGCCGCAATCTAGAGTCGAGTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT
AACAAACACCTAATGTTTATTAATAAATTAGTACACTTGAAGGCATTTTTCTGATATCGG
TCCTTCACCACTACCCACAAACCCCACCCACACAAAGGGAGTCCACGCCACCTTTGCATT
GGAACCTGGCAACTGAGCATTAAAAGGTACATTTGTAAATGGGAGCATAGTTGCAAATAT
ATCAAACAAGGGTTCTTACAGTTGCAGCCATTTTTAATTAAAGTAATTGGGGAAGGAATC
CCACCAGGACCAAGGCCTTGAAAGCAAATTGGACCTATTGATTATGTGTATATAAAAAAC
AAAACATCTTTTAAAGCAAAGCTGGGCAAATTCTCTATGGAAAGGGCGCCACTGGCACTT
GATTTTGACTTTCCAAAGTGCAGCAATGTGTTCCAAAACAGCTCAAATCCTAAAAGGGGA
AGTTCAAGTTCTTTGGTGGCCCAGTTGTCAAGCCACTTAAATAGCAAATCCTGATGGCTT
GAGGATTTCATTTCTCCAGCCCAGAGCATATTAGCATAAGAAGAGTACAAGTAATCAAGC
ATTCTACACGGTGTCCAGGTGAAAACCATACAATCAGCAATAGTGTGGTCAAGTTTCAGC
CATGAATATGAACTATACAAGACATATTTAAAAGATAACTCAAAGTTGAATTGCATTACA
GTAACTCAATGGGGTCTTAAATTTTCTTAATCTTTAAGACAATTTTAAAGGACAAACAAT
AATAAAAATAGTACTAATCTTTGGTTTTAAAAAGTANGTGTGAATGTTAAGAGACATAAA
GACTGCTTATAGGATTACAAGATGCCTTATACTTTTAAGAGTTAAGACCTCACATCCAGG
NGTGGNGAAAGCACACTGCTTTATGTNNAGTAGAAAATTAAAGGCCAGA

Restriction Sites: NotI-NotI

ACCN: NM_014452

Insert Size: 3630 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_014452.3, NP_055267.1
RefSeq Size:	3662 bp
RefSeq ORF:	1968 bp
Locus ID:	27242
UniProt ID:	O75509
Cytogenetics:	6p12.3
Domains:	DEATH, TNFR
Protein Families:	Druggable Genome, Transmembrane
Protein Pathways:	Cytokine-cytokine receptor interaction
Gene Summary:	This gene encodes a member of the tumor necrosis factor receptor superfamily. The encoded protein activates nuclear factor kappa-B and mitogen-activated protein kinase 8 (also called c-Jun N-terminal kinase 1), and induces cell apoptosis. Through its death domain, the encoded receptor interacts with tumor necrosis factor receptor type 1-associated death domain (TRADD) protein, which is known to mediate signal transduction of tumor necrosis factor receptors. Knockout studies in mice suggest that this gene plays a role in T-helper cell activation, and may be involved in inflammation and immune regulation. [provided by RefSeq, Jul 2013]