

Product datasheet for **RG205864**

DR6 (TNFRSF21) (NM_014452) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	DR6 (TNFRSF21) (NM_014452) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	DR6
Synonyms:	BM-018; CD358; DR6
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG205864 representing NM_014452
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGGGGACCTCTCCGAGCAGCAGCACCGCCCTCGCTCCTGCAGCCGCATCGCCCGGAGCCACAGCCA
 CGATGATCGCGGGCTCCCTTCTCCTGCTTGGATTCCCTTAGCACACCACAGCTCAGCCAGAACAGAAAGGC
 CTCGAATCTCATTGGCACATACCGCCATGTTGACCGTGCCACCGCCAGGTGCTAACCTGTGACAAGTGT
 CCAGCAGGAACCTATGTCTCTGAGCATTGTACCAACACAAGCCTGCGCGTCTGCAGCAGTTGCCCTGTGG
 GGACCTTTACCAGGCATGAGAATGGCATAGAGAAATGCCATGACTGTAGTCAGCCATGCCATGGCCAAT
 GATTGAGAAATTACCTTGTGCTGCCTTGACTGACCGAGAATGCACTTGCCACCTGGCATGTTCCAGTCT
 AACGCTACCTGTGCCCCCATACGGTGTGCTGTGGGTGGGGTGTGCGGAAGAAAGGGACAGAGACTG
 AGGATGTGCGGTGAAGCAGTGTGCTCGGGGTACCTTCTCAGATGTGCCTTCTAGTGTGATGAAATGCAA
 AGCATACACAGACTGTCTGAGTCAGAACCTGGTGGTGATCAAGCCGGGGACCAAGGAGACAGACAACGTC
 TGTGGCACACTCCCGTCTTCTCCAGCTCCACCTCACCTTCCCCTGGCACAGCCATCTTTCCACGCCCTG
 AGCACATGGAAACCCATGAAGTCCCTTCTCCACTTATGTTCCAAAGGCATGAACCTCAACAGAATCCAA
 CTCTTCTGCCTCTGTTAGACCAAAGGTAAGTACTGAGTAGCATCCAGGAAGGGACAGTCCCTGACAACACAAGC
 TCAGCAAGGGGAAGGAAGACGTGAACAAGACCCTCCCAAACCTTCAGGTAGTCAACCACCAGCAAGGCC
 CCCACCACAGACACATCTGAAGCTGCTGCCGTCCATGGAGGCCACTGGGGGCGAGAAGTCCAGCACGCC
 CATCAAGGGCCCCAAGAGGGGACATCTAGACAGAACCTACACAAGCATTGATGATCAATGAGCATTG
 CCCTGGATGATTGTGCTTTTCTGCTGCTGGTGTGTTGTGGTATTGTGGTGTGCAGTATCCGGAAAAGCT
 CGAGGACTCTGAAAAAGGGGCCCGGCAGGATCCAGTGCCATTGTGAAAAGGCAGGGCTGAAGAAATC
 CATGACTCCAACCCAGAACCAGGAGAAAATGGATCTACTACTGCAATGGCCATGGTATCGATATCCTGAAG
 CTTGTAGCAGCCCAAGTGGGAAGCCAGTGGAAAGATATCTATCAGTTTCTTTGCAATGCCAGTGAGAGGG
 AGGTTGCTGCTTTCTCCAATGGGTACACAGCCGACCACGAGCGGGCTACGCAGCTCTGCAGCACTGGAC
 CATCCGGGGCCCCGAGGCCAGCCTCGCCAGCTAATTAGCGCCCTGCGCCAGCACCGGAGAAAACGATGTT
 GTGGAGAAGATTCTGGGCTGATGGAAGACACCACCCAGCTGGAACTGACAACTAGCTCTCCCGATGA
 GCCCAGCCCGCTTAGCCCGAGCCCATCCCCAGCCCCAACGCGAACTTGAGAATTCGGCTCTCCTGAC
 GGTGGAGCCTTCCCCACAGGACAAGAACAAGGGCTTCTTCGTGGATGAGTCGGAGCCCTTCTCCGCTGT
 GACTCTACATCCAGCGGCTCCTCCGCGTGTGAGCAGGAACGGTTCTTTATTACCAAGAAAAGAAGGACA
 CAGTGTTGCGGCAGGTACGCCTGGACCCCTGTGACTTGCAGCCTATCTTTGATGACATGCCACTTTCT
 AAATCCTGAGGAGCTGCGGGTGATTGAAGAGATCCCCAGGCTGAGGACAACTAGACCGGCTATTCCGAA
 ATTATTGGAGTCAAGAGCCAGGAAGCCAGCCAGACCCTCCTGGACTCTGTTTATAGCCATCTTCTGACC
 TGCTG

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence: >RG205864 representing NM_014452
 Red=Cloning site Green=Tags(s)

MGTSPSSSTALASCSRIARRATATMIAGSLLLLGFLSTTTAQPEQKASNLIGTYRHVDRATGQVLTCDKC
 PAGTYVSEHCTNTSLRVCSSCPVGTFFTRHENGIEKCHDCSQPCWPWPIEKLPCAALTDRECTCPPGMFQS
 NATCAPHTVCPVGVGRKKGTETEDVRCKQCARGTFSDVPSSVMKCKAYTDCLSQLVVIKPGTKETDNV
 CGTLPSFSSSTSPSPGTAIFPRPEHMETHEVPSSTYVPKGMNSTESNSSASVRPKVLSSIQEGTVPDNTS
 SARGKEDVNKTLPNLQVVNHQQGPHHRHILKLLPSMEATGGEKSSSTPIKGPKRGHPRQNLHKHFDINEHL
 PWMIVLFLLLVIVVCSIRKSSRTLKKGPRQDPSAIVEKAGLKKSMPTQNRKWIYYCNGHGIDILK
 LVAAQVGSQWKDIYQFLCNASEREVAAFSNGYTADHERAYAALQHWIRGPEASLAQLISALRQHRNDV
 VEKIRGLMEDTTQLETDKLALPMSPSPSPSPSPINALENALLTVEPSPQDKNGFFVDESEPLLRC
 DSTSSGSALSRNGSFITKEKDTVLRQVRLDPCDLQPIFDDMLHFLNPEELRVIEEIPQAEDKLDRLF
 IIGVKSQEASQTLLEDVSVYSHLPDLL

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_014452

ORF Size: 1965 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](#)

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.

RefSeq: [NM_014452.5](#)

RefSeq Size: 3662 bp

RefSeq ORF: 1968 bp

Locus ID: 27242

UniProt ID: [O75509](#)

Cytogenetics: 6p12.3

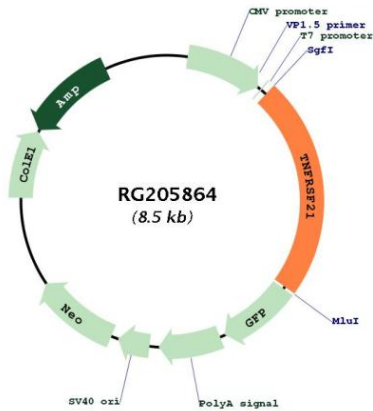
Domains: DEATH, TNFR

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]

Product images:


Circular map for RG205864