

Product datasheet for **SC111086**

DR4 (TNFRSF10A) (NM_003844) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	DR4 (TNFRSF10A) (NM_003844) Human Untagged Clone
Tag:	Tag Free
Symbol:	DR4
Synonyms:	APO2; CD261; DR4; TRAILR-1; TRAILR1
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene ORF within SC111086 sequence for NM_003844 edited (data generated by NextGen Sequencing)
 ATGGCGCCACCACCAGCTAGAGTACATCTAGGTGCGTTCCTGGCAGTGACTCCGAATCCC
 GGGAGCGCAGCGAGTGGGACAGAGGCAGCCGCGGCCACACCCAGCAAAGTGTGGGGCTCT
 TCCGCGGGGAGGATTGAACCACGAGGCGGGGCGGAGGAGCGCTCCCTACCTCCATGGGA
 CAGCACGGACCCAGTGCCCGGGCCCGGGCAGGGCGCCCCAGGACCCAGGCCGGGCGCG
 GAAGCAGCCCTCGGCTCCGGGTCACAAAGACCTTCAAGTTTGTGTCGTGCGGGTCTCG
 CTGCAGGTCGTACCTAGCTCAGCTGCAACCATCAAACCTCATGATCAATCAATTGGCACA
 CAGCAATGGGAACATAGCCCTTTGGGAGAGTTGTGTCCACCAGGATCTCATAGATCAGAA
 CATCCTGGAGCCTGTAACCGGTGCACAGAGGGTGTGGGTACACCAATGCTTCCAACAAT
 TTGTTTGTGCTCCCATGTACAGCTTGTAAATCAGATGAAGAAGAGAGAAGTCCCTGC
 ACCACGACCAGGAACACAGCATGTCAGTGCAAACCAGGAACCTTCCGGAATGACAATTCT
 GCTGAGATGTGCCGAAGTGCAGCAGAGGGTGCCCCAGAGGGATGGTCAAGGTCAAGGAT
 TGTACGCCCTGGAGTGACATCGAGTGTGCCACAAAGAATCAGGCAATGGACATAATATA
 TGGGTGATTTTGGTTGTGACTTTGGTTGTCCGTTGCTGTTGGTGGCTGTGCTGATTGTC
 TGTGTTGCATCGGCTCAGGTTGTGGAGGGGACCCCAAGTGCATGGACAGGGTGTGTTTC
 TGGCGCTTGGGTCTCCTACGAGGGCCTGGGGCTGAGGACAATGCTCACAACGAGATTCTG
 AGCAACGCAGACTCGCTGTCCACTTTCGTCTCTGAGCAGCAAATGGAAAGCCAGGAGCCG
 GCAGATTTGACAGGTGTCACTGTACAGTCCCAGGGGAGGCACAGTGTCTGCTGGGACCG
 GCAGAAGCTGAAGGGTCTCAGAGGAGGAGGCTGCTGGTTCCAGCAAATGGTGTGACCCC
 ACTGAGACTCTGATGCTGTTCTTTGACAAGTTTGCAAACATCGTGCCCTTTGACTCCTGG
 GACCAGCTCATGAGGCAGCTGGACCTCACGAAAAATGAGATCGATGTGGTCAGAGCTGGT
 ACAGCAGGCCCCAGGGGATGCCTTGATGCAATGCTGATGAAATGGGTCAACAAAACCTGGA
 CGGAACGCCCTCGATCCACACCCTGCTGGATGCCTTGGAGAGGATGGAAGAGAGACATGCA
 AAAGAGAAGATTCAGGACCTCTTGGTGGACTCTGGAAAGTTCATCTACTTAGAAGATGGC
 ACAGGCTCTGCCGTGCTCTTGGAGTGA

Clone variation with respect to NM_003844.3
 1322 g=>a

5' Read Nucleotide Sequence: >OriGene 5' read for NM_003844 unedited
 TAATACGACTCACTATAGGGCGGCCGGAATTCGGCACGAGGGTTCTGTCTTGTATAGC
 CAAGCACGCTGCTTCTTGGATTGACCTGGCAGGATGGCGCCACCACCAGCTAGAGTACAT
 CTAGGTGCGTTCCTGGCAGTGACTCCGAATCCCAGGAGCGCAGCGAGTGGGACAGAGGCA
 GCCCGGCCACACCCAGCAAAGTGTGGGGCTCTCCGCGGGGAGGATTGAACCACGAGGC
 GGGGGCCGAGGAGCGCTCCCTACCTCCATGGGACAGCACGGACCCAGTCCCGGGCCCGG
 GCAGGGCGGCCCCAGGACCCAGGCCGCGGGGAAAGCCAGCCCTCGGCTCCGGTCCAC
 AAGACCTTCAAGTTTGTGTCGTGCGGGTCTGCTGCAGTCTGACCTAGCTCAGCTGCA
 ACCATCAAACCTCATGATCAATCAATTGGCACACAGCAATGGGAACATAGCCCTTTGGGA
 GAGTTGTGTCCACCAGGATCTCATAGATCAGAACATCCTGGAGCCTGTAACCGGTGCACA
 GAGGGTGTGGTTACACCAATGCTTCCAACAATTTGTTTGTGCTCCCATGTACAGCT
 TGTAAATCAGATGAAGAAGAGAGAAGTCCCTGCACCACGACCAGGAACACAGCATGTCAG
 TGCAAACCAGGAACCTTCCGGAATGACAATTTGCTGAGATGTGCCGGAAGTGCAGCAGA
 GGGTGCCCGAGGGATGGTCAAGGTCAAGGATTGTACGCCCTGNAGTGACATCGAGTGT
 GTCCACAAAATCAGGCATGGACATATATATGGGTGATTNTGGTTGTGACTTNTGGTGNT
 NNCGTGCTGTTGGNGGCTGTGCTGNATGTCTGTTGTTGCATCGGCTCAGGGTGTGGAGGG
 GACCCNAGTGATGGACAGGNTGTGTTCTGGCGCTTG

3' Read Nucleotide Sequence:	<p>>OriGene 3' read for NM_003844 unedited GTCCGCGGCCGATTCTAGAGTCGAGTTTTTTTTTTTTTTTTTTTCCAAATTTCCAAAGGT ATATGTACTTTAATTGTGACTTGAAGTCAAGGTAATAAATAAATAAATAAATAA CCTTAGCTTACTGGACGGCCACCATCTTATATGCTGTTCCCTTGACTGAAATGTTGTGGG GTAATGACTATATGAAATGGGACTTATTGGAGGAATTAATGCATCTGATAATGGAGG TTGAGAAGTCCACAACAGGCCATCTGCACAGCAGAGACCCTGAAATGCTGGAAGCAGGA CTTAATCCAGCCCCAAAAACCTAAGACCCAGGGAAGCCGATGGTGAATTCTTAGTTCAAG GCCAAAATCCTTAGATCCTTCGGGAGGCCACTGGTGTATGCCCTGGAGTCCAAGGGCTAA AAATCCTAGACTCTGATGTCCACAGGCAGAAGAGTGTCCAGCTCCAGGAGATCAGATGG ATTTGCTTTTCTTTTTTTTTTTTGTCTTCTATCTTGCTCCCCAGTCTGTCGGACGGTG CCCCCCAAATTAAGGGTAGGTCTTTTCCACTCAGTCCACCCGATCGCATGCCAATCCCC TCTGGAACACCCCTCGAAGACATGCCAGAATAATGTCCAGAAAATAATGCCTTACCAGG GTTCTAGGGTTCCTTAATCCTTTCAAATAACACCTCCCATTGACCCCCATGATAAGGAA ACACACGGAGGCCAGCTCCAGGGGAGAACCGAATTCTCCTTTGGCATGTGAACCCCTCAGC CGCGCCATAATCCTTTTCAAGTTTATTTTATTTTATCTTTGAGACCACAGTTCTGCTCTT GTGTCCCAAGCTGGAATTGCCTGTGTGCATCTCCAACCTCTGCCCCCGGGTAAATTTG ATCTCTTCGCGCCAACACTCCCAACCCCAAAAAATTAAG</p>
Restriction Sites:	NotI-NotI
ACCN:	NM_003844
Insert Size:	2680 bp
OTI Disclaimer:	<p>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.</p> <p>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</p>
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:	<ol style="list-style-type: none"> 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_003844.2 , NP_003835.2
RefSeq Size:	1723 bp

RefSeq ORF:	1407 bp
Locus ID:	8797
UniProt ID:	O00220
Cytogenetics:	8p21.3
Domains:	DEATH, TNFR
Protein Families:	Druggable Genome, Transmembrane
Protein Pathways:	Apoptosis, Cytokine-cytokine receptor interaction, Natural killer cell mediated cytotoxicity
Gene Summary:	The protein encoded by this gene is a member of the TNF-receptor superfamily. This receptor is activated by tumor necrosis factor-related apoptosis inducing ligand (TNFSF10/TRAIL), and thus transduces cell death signal and induces cell apoptosis. Studies with FADD-deficient mice suggested that FADD, a death domain containing adaptor protein, is required for the apoptosis mediated by this protein. [provided by RefSeq, Jul 2008]