

## Product datasheet for **RG202152**

### **DR4 (TNFRSF10A) (NM\_003844) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	DR4 (TNFRSF10A) (NM_003844) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	DR4
Synonyms:	APO2; CD261; DR4; TRAILR-1; TRAILR1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>RG202152 representing NM\_003844  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**GCGATCGCC**

ATGGCGCCACCACGACTAGAGTACATCTAGTGCGTTCTCTGGCAGTGACTCCGAATCCCGGGAGCGCAG  
 CGAGTGGGACAGAGGCAGCCGCGCCACACCCAGCAAAGTGTGGGGCTCTTCCGCGGGGAGGATTGAACC  
 ACGAGGCGGGGGCCGAGGAGCGCTCCCTACCTCCATGGGACAGCACGGACCCAGTGCCCGGGCCCGGCA  
 GGGCGCGCCCCAGGACCCAGGCCGCGCGGGAAGCCAGCCCTCGGCTCCGGGTCCACAAGACCTTCAAGT  
 TTGTCGTCGTCGGGGTCTGCTGCAGGTCGTACCTAGCTCAGCTGCAACCATCAAACCTTCATGATCAATC  
 AATTGGCACACAGCAATGGGAACATAGCCCTTTGGGAGAGTTGTGTCCACCAGGATCTCATAGATCAGAA  
 CATCCTGGAGCCTGTAAACGGTGCACAGAGGTGTGGGTACACCAATGCTTCCAACAATTTGTTTGCTT  
 GCCTCCCATGTACAGCTTGTAAATCAGATGAAGAAGAGAGAAGTCCCTGCACCACGACCAGGAACACAGC  
 ATGTCAGTGCAAACCAGGAACCTTCCGGAATGACAATTCTGCTGAGATGTCCCGAAGTGCAGCAGAGGG  
 TGCCCCAGAGGGATGGTCAAGGTCAAGGATTGTACGCCCTGGAGTGACATCGAGTGTGCCACAAAGAAT  
 CAGGCAATGGACATAATATATGGGTGATTTTGGTTGTGACTTTGGTTGTTCCGTTGCTGTTGGTGGCTGT  
 GCTGATTGTCTGTTGTTGCATCGGCTCAGGTTGTGGAGGGGACCCCAAGTGCATGGACAGGGTGTGTTTC  
 TGGCGCTTGGGTCTCCTACGAGGGCCTGGGGCTGAGGACAATGCTCACAACGAGATTCTGAGCAACGCAG  
 ACTCGTGTCCACTTTCGCTCTGAGCAGCAAATGGAAAGCCAGGAGCCGGCAGATTTGACAGGTGTAC  
 TGTACAGTCCCCAGGGGAGGCACAGTGTCTGCTGGGACCGGCAGAAGTGAAGGGTCTCAGAGGAGGAGG  
 CTGCTGGTCCAGCAAATGGTGTGACCCACTGAGACTCTGATGCTGTTCTTTGACAAGTTTGCAAACA  
 TCGTGCCCTTTGACTCCTGGGACCAGCTCATGAGCAGCTGGACCTCACGAAAAATGAGATCGATGTGGT  
 CAGAGCTGGTACAGCAGGCCAGGGGATGCCTTGTATGCAATGCTGATGAAATGGGTCAACAAAACCTGGA  
 CGGAACGCCTCGATCCACACCCTGCTGGATGCCTTGGAGAGGATGGAAGAGAGACATGCAAAAGAGAAGA  
 TTCAGGACCTCTTGGTGGACTCTGGAAAGTTCATCTACTTAGAAGATGGCACAGGCTCTGCCGTGCCTT  
 GGAG

**ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA**

**Protein Sequence:**

>RG202152 representing NM\_003844  
 Red=Cloning site Green=Tags(s)

MAPPPARVHLGAF LAVTPNPGSAASGTEAAAATPSKVVWSSAGRIEPRGGGRGALPTSMGQHGPSARARA  
 GRAPGPRPAREASPRLRVHKTFFKVVVGVLLQVVPSSAATIKLHDQSIGTQWEHSPLGELCPPGSHRSE  
 HPGACNRCTEGVYTNASNFLACLPTACKSDEEERSPCTTTRNTACQCKPGTFRNDNSAEMCRKCSR  
 CPRGMVKVDCTPWSDIECVHKESGNHNIWVILVVTLVPLLLVAVLIVCCIGSGCGGDPKCMDRVCF  
 WRLGLLRPGAEDNAHNEILSNADSLSTFVSEQQMESQEPADLTGVTVQSPGEAQCLLPAAEAGSQRRR  
 LLVPANGADPTETLMLFFDKFANIVPFDSDQLMRQLDLTKNEIDVVVRAGTAGPGDALYAMLKWNKGT  
 RNASIHTLLDALERMEERHAKEKIQDLLVDSGKFIYLEDGTGSAVSLE

**TRTRPLE - GFP Tag - V**

**Restriction Sites:**

Sgfl-Mlul

**Cloning Scheme:**


**ACCN:** NM\_003844

**ORF Size:** 1404 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](mailto: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](#)

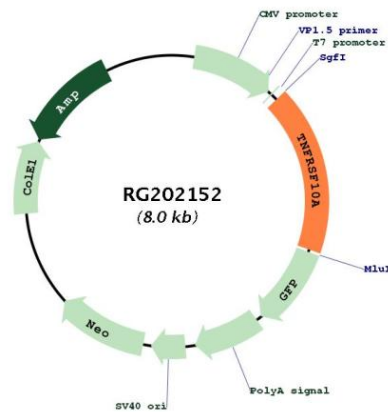
**OTI Annotation:** This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

**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:	<a href="#">NM_003844.2</a> , <a href="#">NP_003835.2</a>
RefSeq Size:	1723 bp
RefSeq ORF:	1407 bp
Locus ID:	8797
UniProt ID:	<a href="#">O00220</a>
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]

### Product images:



Circular map for RG202152