

## Product datasheet for **RG208641**

### **TNFRSF1B (NM\_001066) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	TNFRSF1B (NM_001066) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	TNFRSF1B
Synonyms:	CD120b; p75; p75TNFR; TBPII; TNF-R-II; TNF-R75; TNFBR; TNFR1B; TNFR2; TNFR80
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>RG208641 representing NM\_001066  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGCGCCCGTCGCCGTCTGGGCCGCGCTGGCCGTCGGACTGGAGCTCTGGGCTGCGGCGCACGCCCTTGC  
 CCGCCAGGTGGCATTACACCCCTACGCCCGGAGCCCGGGAGCACATGCCGGCTCAGAGAATACTATGA  
 CCAGACAGCTCAGATGTGCTGCAGCAAATGCTCGCCGGGCAACATGCAAAGTCTTCTGTACCAAGACC  
 TCGGACACCGTGTGACTCCTGTGAGGACAGCACATACCCAGCTCTGGAAGTGGGTTCCCGAGTGCT  
 TGAGCTGTGGCTCCCGTGTAGCTCTGACCAGGTGAAACTCAAGCTGCACTCGGGAACAGAACCAGCAT  
 CTGCACCTGCAGGCCCGGCTGGTACTGCGCGCTGAGCAAGCAGGAGGGGTGCCGGCTGTGCGCGCCGCTG  
 CGCAAGTCCCGCCGGGCTTCGGCGTGGCCAGACCAGAACTGAAACATCAGACGTGGTGTCAAGCCCT  
 GTGCCCGGGGACGTTTCCAACACGACTTCATCCACGGATATTCAGGCCCCACCAGATCTGTAACGT  
 GGTGGCCATCCCTGGGAATGCAAGCATGGATGCAGTCTGCACGTCCACGTCCCCACCCGGAGTATGGCC  
 CCAGGGGAGTACACTTACCCAGCCAGTCCACACGATCCCAACACACGAGCCAACTCCAGAACCCA  
 GCACTGCTCCAAGCACCTCCTTCTGCTCCAATGGGCCCCAGCCCCCAGCTGAAGGGAGCACTGGCGA  
 CTTTCGCTTCCAGTTGGACTGATTGTGGGTGTGACAGCCTTGGGTCTACTAATAATAGGAGTGGTGAAC  
 TGTGTCATCATGACCCAGGTGAAAAAGAAGCCCTTGTGCTGCAGAGAGAAGCCAAGGTGCCTCACTTGC  
 CTGCCGATAAGGCCCGGGGTACACAGGGCCCGAGCAGCACCTGCTGATCACAGCGCCGAGCTCCAG  
 CAGCAGTCCCTGGAGAGCTCGGCCAGTGCCTGGACAGAAGGGCGCCACTCGGAACAGCCACAGGCA  
 CCAGGCGTGGAGGCCAGTGGGCCGGGGAGGCCCGGGCCAGCACCGGGAGCTCAGATTCTCCCTGGTG  
 GCCATGGGACCCAGGTCAATGTCACTGCATCGTGAACGCTGTAGCAGCTCTGACCACAGCTCACAGTG  
 CTCTCCCAAGCCAGCTCCACAATGGGAGACACAGATTCCAGCCCTCGGAGTCCCCGAAGGACGAGCAG  
 GTCCCTTCTCCAAGGAGGAATGTGCTTTCGGTACAGCTGGAGACGCCAGAGACCCTGCTGGGGAGCA  
 CCGAAGAGAAGCCCTGCCCTTGGAGTGCCTGATGCTGGGATGAAGCCAGT

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:**

>RG208641 representing NM\_001066  
 Red=Cloning site Green=Tags(s)

MAPVAVWAALAVGLELWAAHALPAQVAFPTYAPEPGSTCRLREYYDQTAQMCCSKCSPGQHAKVFCTKT  
 SDTVCDSCEDSTYTQLWNWVPECLSCGSRCSDDQVETQACTREQNRICTCRPGWYCALSKQEGCRLCAPL  
 RKCRPGFVARGPGETSDVVCKPCAPGTFNNTSSDICTRPHQICNVVAIPGNASMDAVCTSTSPTRMA  
 PGAVHLPQPVSTRSQHTQPTPEPSTAPSTFLLPMGPPPAEGSTGDFALPVGLIVGVTALGLLIIGVNN  
 CVIMTQVKKKPLCLQREAKVPHLPADKARGTQGPEQQHLLITAPSSSSSSLESSASALDRRAPTRNQQA  
 PGVEASGAGEARASTGSSDSSPGHGHTQVNVTCIVNVCSSDSSHQSSQASSTMGDTDSSPSESPEKDEQ  
 VPFKEECAFRSQLETPETLLGSTEELPLPLGVPDAGMKPS

**TRTRPLE** - GFP Tag - V

**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**


**ACCN:** NM\_001066

**ORF Size:** 1383 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).

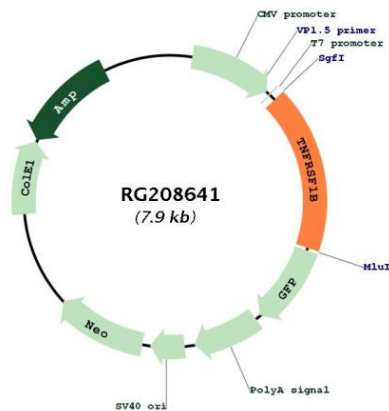
- Reconstitution Method:**
1. Centrifuge at 5,000xg for 5min.
  2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
  3. Close the tube and incubate for 10 minutes at room temperature.
  4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the 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:** [NM\\_001066.3](#)

**RefSeq Size:** 3682 bp  
**RefSeq ORF:** 1386 bp  
**Locus ID:** 7133  
**UniProt ID:** [P20333](#)  
**Cytogenetics:** 1p36.22  
**Domains:** TNFR  
**Protein Families:** Druggable Genome, Secreted Protein, Transmembrane  
**Protein Pathways:** Adipocytokine signaling pathway, Amyotrophic lateral sclerosis (ALS), Cytokine-cytokine receptor interaction

**Gene Summary:** The protein encoded by this gene is a member of the TNF-receptor superfamily. This protein and TNF-receptor 1 form a heterocomplex that mediates the recruitment of two anti-apoptotic proteins, c-IAP1 and c-IAP2, which possess E3 ubiquitin ligase activity. The function of IAPs in TNF-receptor signalling is unknown, however, c-IAP1 is thought to potentiate TNF-induced apoptosis by the ubiquitination and degradation of TNF-receptor-associated factor 2, which mediates anti-apoptotic signals. Knockout studies in mice also suggest a role of this protein in protecting neurons from apoptosis by stimulating antioxidative pathways. [provided by RefSeq, Jul 2008]

### Product images:



Circular map for RG208641