

## Product datasheet for **RC211622**

### CD95 (FAS) (NM\_152872) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	CD95 (FAS) (NM_152872) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	FAS
Synonyms:	ALPS1A; APO-1; APT1; CD95; FAS1; FASTM; TNFRSF6
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>RC211622 representing NM_152872 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGCTGGGCATCTGGACCCTCTACCTCTGGTTCTTACGCTCTGTTGCTAGATTATCGTCCAAAAGTGTTA  
ATGCCCAAGTGACTGACATCAACTCCAAGGATTGGAATTGAGGAAGACTGTTACTACAGTTGAGACTCA  
GAACTTGAAGGCTGCATCATGATGGCAATTCTGCCATAAGCCCTGTCCTCCAGGTGAAAGGAAAGCT  
AGGGACTGCACAGTCAATGGGGATGAACAGACTGCGTGCCTGCCAAGAAGGGAAGGAGTACACAGACA  
AAGCCATTTTTCTTCCAAATGCAGAAGATGTAGATTGTGTGATGAAGGACATGGCTTAGAAGTGAAAT  
AACTGCACCCGGACCCAGAATACCAAGTGCAGATGTAACCAAACCTTTTTTGTAACTCTACTGTATGT  
GAACACTGTGACCCTTGACCAAATGTGAACATGGAATCATCAAGGAATGCACACTCACCAGCAACACCA  
AGTGCAAAGAGGAAGGATCCAGATCTAACTTGGGGTGGCTTTGTCTTCTTTTGGCAATTCCTAAT  
TGTTTGGGTGAAGAGAAAGGAAGTACAGAAAACATGCAGAAAGCACAGAAAGGAAAACCAAGTTTCAT  
GAATCTCCAACTTAAATCCTATGTTGACT

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >RC211622 representing NM\_152872  
Red=Cloning site Green=Tags(s)

MLGIWTLPLVLTSVARLSSKSVNAQVTDINSKGLERKTVTTVETQNLEGLHHDGQFCHKPCPPGERKA  
 RDCTVNGDEPDCVPCQEGKEYTDKAHFFSSKCRRCRLCDEHGLEVEINCTRTQNTKCRCKPNFFCNSTVC  
 EHCDPCTKCEHGIIEKCTLTSNTKCKEEGSRNLGWLCLLLLIPLIVVWKRKEVQKTCRKHRRKENQGS  
 ESPTLNPMILT

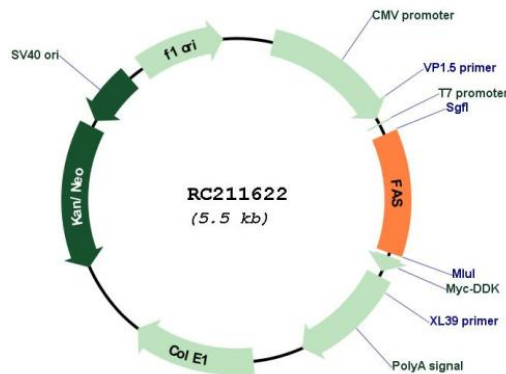
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**Plasmid Map:**



**ACCN:** NM\_152872

**ORF Size:** 660 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\\_152872.4](#)

**RefSeq Size:** 2730 bp

**RefSeq ORF:** 663 bp

**Locus ID:** 355

**UniProt ID:** [P25445](#)

**Cytogenetics:** 10q23.31

**Protein Families:** Druggable Genome, ES Cell Differentiation/IPS, Secreted Protein

**Protein Pathways:** Allograft rejection, Alzheimer's disease, Apoptosis, Autoimmune thyroid disease, Cytokine-cytokine receptor interaction, Graft-versus-host disease, MAPK signaling pathway, Natural killer cell mediated cytotoxicity, p53 signaling pathway, Pathways in cancer, Type I diabetes mellitus

**MW:** 24.8 kDa

**Gene Summary:**

The protein encoded by this gene is a member of the TNF-receptor superfamily. This receptor contains a death domain. It has been shown to play a central role in the physiological regulation of programmed cell death, and has been implicated in the pathogenesis of various malignancies and diseases of the immune system. The interaction of this receptor with its ligand allows the formation of a death-inducing signaling complex that includes Fas-associated death domain protein (FADD), caspase 8, and caspase 10. The autoproteolytic processing of the caspases in the complex triggers a downstream caspase cascade, and leads to apoptosis. This receptor has been also shown to activate NF-kappaB, MAPK3/ERK1, and MAPK8/JNK, and is found to be involved in transducing the proliferating signals in normal diploid fibroblast and T cells. Several alternatively spliced transcript variants have been described, some of which are candidates for nonsense-mediated mRNA decay (NMD). The isoforms lacking the transmembrane domain may negatively regulate the apoptosis mediated by the full length isoform. [provided by RefSeq, Mar 2011]