

Product datasheet for RC204520

CD95 (FAS) (NM_000043) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CD95 (FAS) (NM_000043) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	CD95
Synonyms:	ALPS1A; APO-1; APT1; CD95; FAS1; FASTM; TNFRSF6
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC204520 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCTGGGCATCTGGACCCTCTACCTCTGGTTCTTACGTCTGTTGCTAGATTATCGTCCAAAAGTGTTA
ATGCCCAAGTGACTGACATCAACTCCAAGGATTGGAATTGAGGAAGACTGTTACTACAGTTGAGACTCA
GAACTTGAAGGCCTGCATCATGATGGCAATTCTGCCATAAGCCCTGCCTCCAGGTGAAAGGAAAGCT
AGGGACTGCACAGTCAATGGGGATGAACCAGACTGCGTGCCCTGCCAAGAAGGGAAGGAGTACACAGACA
AAGCCATTTTTCTTCCAAATGCAGAAGATGTAGATTGTGTGATGAAGGACATGGCTTAGAAGTGGAAAT
AACTGCACCCGACCCAGAATACCAAGTGCAGATGTAAACCAAACCTTTTTTGTAACTCTACTGTATGT
GAACACTGTGACCCTTGACCAAATGTGAACATGGAATCATCAAGGAATGCACACTCACCAGCAACACCA
AGTGCAAAGAGGAAGGATCCAGATCTAACTTGGGGTGGCTTTGTCTTCTTTTCCCAATTCCACTAAT
TGTTTGGGTGAAGAGAAAGGAAGTACAGAAAACATGCAGAAAGCAGAAAGGAAACCAAGGTTCTCAT
GAATCTCCAACCTTAAATCCTGAAACAGTGGCAATAAATTTATCTGATGTTGACTTGAGTAAATATATCA
CCACTATTGCTGGAGTCATGACACTAAGTCAAGTTAAAGGCTTTGTTGAAAGAAATGGTGTCAATGAAGC
CAAAATAGATGAGATCAAGAATGACAATGTCCAAGACACAGCAGAACAGAAAGTTCAACTGCTTCGTAAT
TGGCATCAACTTCATGGAAGAAAGAAGCGTATGACACATTGATTAAGATCTCAAAAAGCCAATCTTT
GTACTCTTGACAGAGAAAATTCAGACTATCATCTCAAGGACATTACTAGTGACTCAGAAAATTCAAACT
CAGAAATGAAATCCAAAGCTTGGTC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC204520 protein sequence
Red=Cloning site Green=Tags(s)

MLGIWTLPLVLT SVARLSSKSVNAQVTDINSGLELRKTVTTT VETQNLEGLHHDGQFCHKPCPPGERKA
 RDCTVNGDEPDCVPCQEGKEYTDKAHFSSKCRRCRLCDEHGLEVEINCTRTRQNTKCRCKPNFFCNSTVC
 EHCDPCTKCEHGIIEKCTLTSNTKCKEEGSRNLGWLCLLLLIPLIVVWKRKEVQKTCRKHRRKENQGS
 ESPTLNPETVAINLSDVDLSKYITTIAGVMTLSQVKG FVRKNGVNEAKIDEIKNDNVQDTAEQKVQLLRN
 WHQLHGKKEAYDTLIKDLKKANLCTLAEKIQTII LKDITSDSENSFRNEIQSLV

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6325_h02.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_000043

ORF Size: 1005 bp

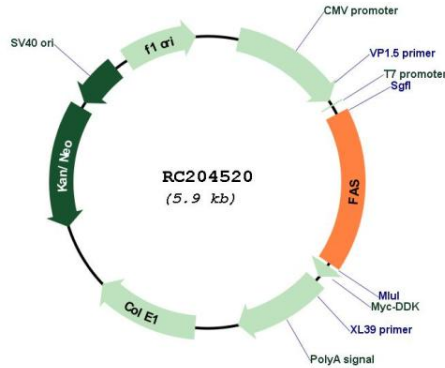
OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially 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.

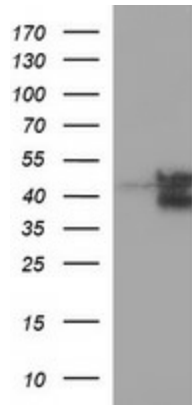
Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

Reconstitution Method:	<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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	<u>NM_000043.3</u> , <u>NP_000034.1</u>
RefSeq Size:	2755 bp
RefSeq ORF:	1008 bp
Locus ID:	355
UniProt ID:	<u>P25445</u>
Cytogenetics:	10q23.31
Domains:	DEATH, TNFR
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:	37.7 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]

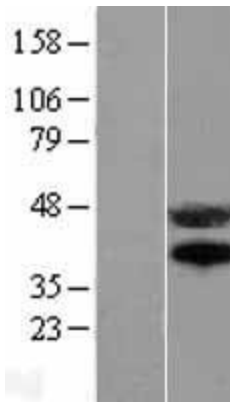
Product images:



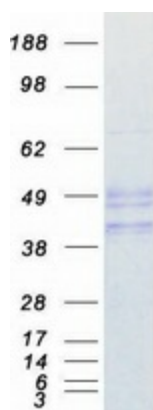
Circular map for RC204520



HEK293T cells were transfected with the pCMV6-ENTRY control (Cat# [PS100001], Left lane) or pCMV6-ENTRY FAS (Cat# RC204520, Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-FAS (Cat# [TA506937]). Positive lysates [LY424961] (100ug) and [LC424961] (20ug) can be purchased separately from OriGene.



Western blot validation of overexpression lysate (Cat# [LY424961]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC204520 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified FAS protein (Cat# [TP304520]). The protein was produced from HEK293T cells transfected with FAS cDNA clone (Cat# RC204520) using MegaTran 2.0 (Cat# [TT210002]).