

## Product datasheet for **RC216958**

### JUND (NM\_005354) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	JUND (NM_005354) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	JUND
Synonyms:	AP-1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC216958 representing NM_005354 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGAACACCCTTCTACGGCGATGAGGCGCTGAGCGCCTGGGCGGCGGCCAGTGGCAGCGGGCA  
GCTTCGCGTCCCCGGCCGCTTGTTCGCCGGGCGCCCCGACGGCCGCGGCCGGCAGCATGATGAAGAA  
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GGCTGCTGAAGCTGGCCTCCCCGAGCTCGAGCGCCTCATCATCCAGTCCAACGGGCTGGTACCACCAC  
GCCGACGAGCTCACAGTTCCTCTACCCCAAGGTGGCGGCCAGCGAGGAGCAGGAGTTCGCCGAGGGCTTC  
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CGCGCCGAAGCGCCTGTCTACGCGAACCTGAGCAGCTACGCGGGCGCGCCGGGGGGCGCGGGGGCGCC  
GCGACGGTCGCTTCGCTGCCGAACCTGTGCCCTTCCGCGCGCCGCCACCCCAAGCGCGTTGGGGCCG  
CGCGCCTGGCTGCGCTCAAGGACGAGCCACAGACGGTGCCCGACGTGCCGAGCTTCGGCGAGAGCCCGC  
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**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >RC216958 representing NM\_005354  
 Red=Cloning site Green=Tags(s)

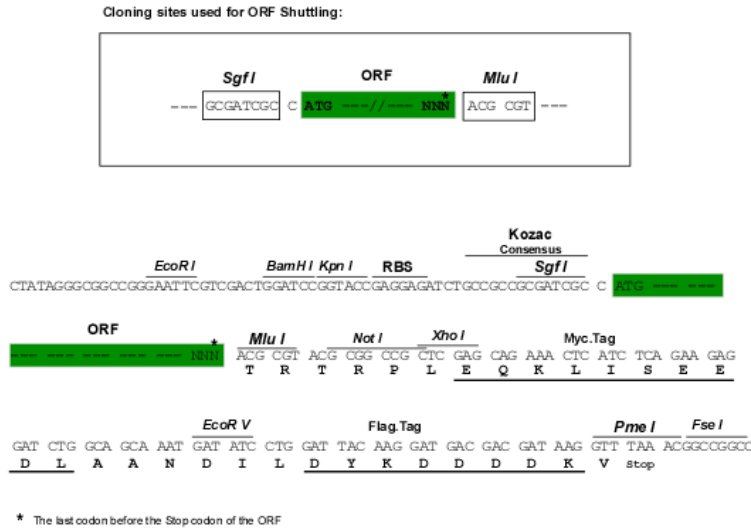
METPFYGDEALSGLGGGASGSGGSFASPGRLFPGAPPTAAAGSMMKDALTSLSEQVAAALKPAAAPP  
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 VKALEDLHKQNLGAGAAAAAAAAAAGP SGTATGSAPPGELAPAAAAPEAPVYANLSSYAGGAGGAGGA  
 ATVAFAAEPVPFPPPPPPGALGPPRLAALKDEPQTVPDVPFSGESPLSPIDMDTQERIKAEKRRLRNRI  
 AASKCRKRLERISRLEEKVKTLKSQNTELASTALLREQVAQLKQKVLSHVNSGCQLLPQHQPAY

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:** [https://cdn.origene.com/chromatograms/mg3135\\_e09.zip](https://cdn.origene.com/chromatograms/mg3135_e09.zip)

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_005354

**ORF Size:** 1041 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:**

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\\_005354.6](#)

**RefSeq Size:** 1891 bp

**RefSeq ORF:** 1044 bp

**Locus ID:** 3727

**UniProt ID:** [P17535](#)

**Cytogenetics:** 19p13.11

**Domains:** BRLZ, Jun

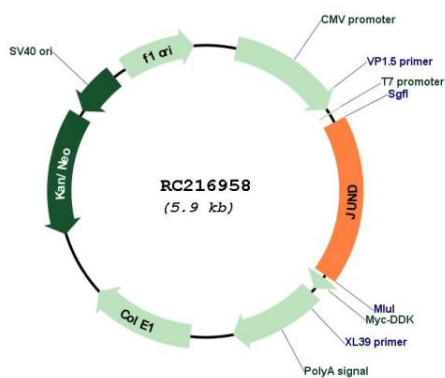
**Protein Families:** Druggable Genome, Transcription Factors

**Protein Pathways:** MAPK signaling pathway

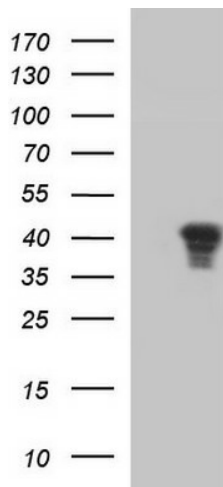
**MW:** 35 kDa

**Gene Summary:** The protein encoded by this intronless gene is a member of the JUN family, and a functional component of the AP1 transcription factor complex. This protein has been proposed to protect cells from p53-dependent senescence and apoptosis. Alternative translation initiation site usage results in the production of different isoforms (PMID:12105216). [provided by RefSeq, Nov 2013]

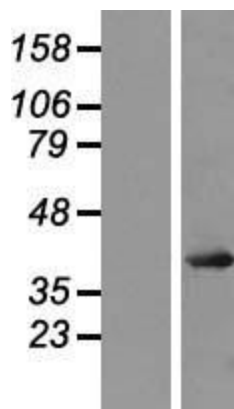
## Product images:



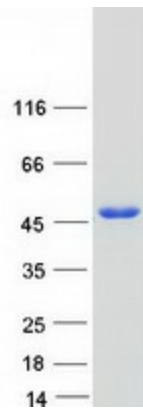
Circular map for RC216958



HEK293T cells were transfected with the pCMV6-ENTRY control (Cat# [PS100001], Left lane) or pCMV6-ENTRY JUND (Cat# RC216958, 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-JUND (Cat# [TA590607]). Positive lysates [LY417361] (100ug) and [LC417361] (20ug) can be purchased separately from OriGene.



Western blot validation of overexpression lysate (Cat# [LY417361]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC216958 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified JUND protein (Cat# [TP316958]). The protein was produced from HEK293T cells transfected with JUND cDNA clone (Cat# RC216958) using MegaTran 2.0 (Cat# [TT210002]).