

## Recombinant Human Jun Proto-Oncogene, GST-tagged

Cat. No. JUN-4856H Lot. No. (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant human JUN (1-79) was expressed in E.coli cells using a N-terminal GST tag.
<b>Species</b>	Human
<b>Source</b>	E.coli
<b>ProteinLength</b>	1-79 a.a.
<b>Description</b>	<p>JUN is a proto-oncogene that forms a complex with c-Fos which regulates transcription from promoters containing AP-1 activation elements. JUN has specific DNA binding activity and following in vitro translation, JUN binds as a homodimer to the AP-1 DNA site. The transactivating function of JUN is acutely regulated by a wide variety of cellular signals via modulation of phosphorylation of two serines (63 and 73). JUN N-terminal domain kinases (JNKs), are responsible for mediating S63/73 phosphorylation on JUN in response to a variety of cellular stimuli including TNF-<math>\alpha</math>, heat stress and u.v. light.</p>
<b>Applications</b>	Kinase Assay;Western Blot
<b>Molecular Weight</b>	35 kDa
<b>Expression System</b>	E.coli
<b>Form</b>	Recombinant protein stored in 50mM Tris-HCl, pH 7.5, 150mM NaCl, 10 mM

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	glutathione, 0.1 mM EDTA, 0,25 mM DTT, 0.1 mM PMSF, 25% glycerol.
<b>Purity</b>	> 50 %
<b>Concentration</b>	0.2 ug/ul
<b>Sequences</b>	1-79
<b>Storage</b>	Store product at -70°C. For optimal storage, aliquot target into smaller quantities after centrifugation and store at recommended temperature. For most favorable performance, avoid repeated handling and multiple freeze/thaw cycles.
<b>Pathways</b>	ATF-2 transcription factor network; Activated TLR4 signalling; Apoptosis; BCR signaling pathway; Focal Adhesion; Glucocorticoid receptor regulatory network; TGF-beta Receptor Signaling Pathway; Toll-like receptor signaling pathway; Validated transcriptional targets of AP1 family members Fra1 and Fra2; Wnt signaling pathway
<b>GENE INFORMATION</b>	
<b>Gene Name</b>	<a href="#">JUN jun oncogene [ Homo sapiens ]</a>
<b>Official Symbol</b>	<a href="#">JUN</a>
<b>Synonyms</b>	JUN; jun proto-oncogene; AP1; AP-1; c-Jun; transcription factor AP-1; p39; jun oncogene; OTTHUMP00000010036; activator protein 1; proto-oncogene c-Jun; enhancer-binding protein AP1; Jun activation domain binding protein; v-jun sarcoma virus 17 oncogene homolog; v-jun avian sarcoma virus 17 oncogene homolog; v-jun sarcoma virus 17 oncogene homolog (avian); Activator protein 1; Proto-oncogene c-Jun
<b>Gene ID</b>	<a href="#">3725</a>

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<b>mRNA Refseq</b>	NM_002228
<b>Protein Refseq</b>	NP_002219
<b>MIM</b>	165160
<b>UniProt ID</b>	P05412
<b>Chromosome Location</b>	1p32-p31
<b>Function</b>	DNA binding; R-SMAD binding; Rho GTPase activator activity; double-stranded DNA binding; protein binding; Protein homodimerization activity; sequence-specific DNA binding; sequence-specific DNA binding transcription factor activity; sequence-specific distal enhancer binding RNA polymerase II transcription factor activity; transcription coactivator activity; transcription factor binding; transcription regulatory region DNA binding
<b>PDBrendering based on 1a02.</b>	

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