

Division of Signal Transduction Therapy

Standard Operating Procedure

Preparation of ATF2 [19-96]

Protein description:- ATF2 [19-96]

Clone number:- DU 1787

Source:- Recombinant

Expression system:- *E.coli*

Tag:- N-terminal GST

Purification method:- GSH Sepharose

Expression level:- 10 mg/L

Calculated molecular mass:- 36, 358 daltons

Purity:- > 95 %

Enzyme storage buffer:-

50 mM Tris-HCl pH 7.5, 50 % glycerol, 150 mM NaCl, 0.1 mM EGTA,
0.1 % 2-mercaptoethanol, 0.02 % Brij-35, 0.2 mM PMSF, 1 mM Benzamidine.

Storage temperature:- -20 °C

Assay:- Substrate for JNK1, JNK2 and JNK3

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CLONE DATA SHEET

ATF2 [19-96]

<u>Protein</u>	ATF2 [19-96]
<u>Clone number</u>	DU 1787
<u>Species</u>	Human
<u>Accession number</u>	NM_001880
<u>Tags</u>	N-terminal GST
<u>Bacterially expressed protein</u>	MSPILGYWKIKGLVQPTRLLEYLEEKYEHLIERDEGDKWRNKKFEL GLEFPNLPYYIDGDVKLTQSMAIIRYIADKHNMLGGCPKERAIEISMLE GAVLDIRYGVSRIAYSKDFETLKVDFLSKLPPEMLKMFEDRLCHKTYLN GDHVTHPDFMLYDALDVVLYMDPMCLDAFPKLVCFKKRIEAIIPQIDKY LKSSKYIAWPLQGWQATFGGGDHPKSDLVPRGSIAMDPGLVDM SDDK PFLCTAPGCGQRFTNEDHLAVHKHKHEMTLKF GPARNDSVIVADQ TPT PTRFLKNCEEVGLFNELASPFENE LEID
<u>Native sequence</u>	Amino acids M19 – F96 of human ATF2. [Full length protein ends at residue S505] Residue M236 of the fusion protein is equivalent to M19 of the native protein. The GST tag is located at residues 1 – 220. The following sequence is present after the ATF2 sequence, LEID, residues 314 - 317.
<u>Protease cleavage</u>	Thrombin (<u>LVPRGS</u>) residues 221 - 226
<u>Cloning sites</u>	<i>Bam</i> HI and <i>Eco</i> RI sites of pGEX-4T-1
<u>Nucleotide sequence of insert</u>	ATGAGTGATGACAAACCCTTTCTATGTACTGCGCCTGGATGTGGCCAG CGTTTTACCAACGAGGATCATTGGCTGTCCATAAACATAAACATGAG ATGACACTGAAATTTGGTCCAGCACGTAATGACAGTGTCATTGTGGCT GATCAGACCCCAACCAACAAGATTCTTGAAAACTGTGAAGAAGTG GGTTTGTTTAATGAGTTGGCGAGTCCATTGAGAATGAATTCCTCGAG ATCGATtag