

Division of Signal Transduction Therapy

Standard Operating Procedure

Preparation of SGK3 PX domain [1 – 130]

Protein description:- SGK3 PX domain [1 – 130]

Clone number:- DU 2034

Source:- Recombinant

Expression system:- *E.coli*

Tag:- N-terminal GST

Purification method:- GSH Sepharose

Expression level:- 5 mg/L

Calculated molecular mass:- 42, 317 daltons

Purity:- 90 %

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

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CLONE DATA SHEET

SGK3 PX domain [1 - 130]

<u>Protein</u>	SGK3 PX domain [1 - 130]
<u>Clone number</u>	DU 2034
<u>Species</u>	Human
<u>Accession no</u>	NM_013257
<u>Tags</u>	N-terminal GST
<u>Bacterially expressed protein</u>	MSPILGYWKIKGLVQPTRLLEYLEEKYEEHLYERDEGDKW RNKKFELGLEFPNLPYYIDGDVKLTQSMAIIRYIADKHNML GGCPKERAEISMLEGAVLDIRYGVSRIAYSKDFETLKVDFL SKLPEMLKMFEDRLCHKTYLNGDHVTHPDFMLYDALDVVLY MDPMCLDAFPKLVCFKKRIEAIPIQIDKYLKSSKYIAWPLQG WQATFGGGDHPPKSDLEVLFGGPLGSMQRDHTMDYKESCPS VSIPSSDEHREKKKRFTVYKVLVSVGRSEWFVFRRYAEFDK LYNTLKKQFPAMALKIPAKRIFGDNFDPDFIKQRRAGLNEF IQNLVRYPELYNHPDVRAFLQMDSPKHQSDPSE
<u>Native sequence</u>	Amino acids M1 – E130 (L496 end) of human SGK3. Residue M232 of the fusion protein is equivalent to M1 of the native protein. The GST tag is located at residues 1 - 220
<u>Protease cleavage</u>	PreScission (<u>LEVLFQGPL</u>) residues 221 - 229
<u>Cloning sites</u>	<i>Bam</i> H1 of pGEX 6P

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**Nucleotide
sequence of insert**

GGATCCATGGACTACAAGGAAAGCTGCCCAAGTGTAAGCAT
TCCCAGCTCCGATGAACACAGAGAGAAAAAGAAGAGGTTTA
CTGTTTATAAAGTTCTGGTTTCAGTGGGAAGAAGTGAATGG
TTTGTCTTCAGGAGATATGCAGAGTTTGATAAACTTTATAA
CACTTTAAAAAACAGTTTCCTGCTATGGCCCTGAAGATTC
CTGCCAAGAGAATATTTGGTGATAATTTTGATCCAGATTTT
ATTAAACAAAGACGAGCAGGACTAAACGAATTCATTCAGAA
CCTAGTTAGGTATCCAGAACTTTATAACCATCCAGATGTCA
GAGCATTCTTCAAATGGACAGTCCAAAACACCAGTCAGAT
CCATCTGAAtgaggatcc