

Division of Signal Transduction Therapy

Standard Operation Procedure

Preparation of ITCH isoform 2

Enzyme description:- ITCH isoform 2 1-862

Clone number:- DU11097

Source:- Recombinant

Tag:- N-terminal GST

Purification method:- GSH-Sepharose

Expression level:- 0.3 mg/L

Calculated molecular mass:-

Monoisotopic 125420

Average Mass 125498

[cysteines reduced, methionines have not been oxidised]

Theoretical pI:- 5.89

Purity:- 90%

Enzyme storage buffer:-

50 mM HEPES pH 7.5, 10% glycerol, 150mM NaCl, 1mM DTT

Storage temperature:- -80°C

Assay:-

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Clone Data Sheet

Protein name **ITCH isoform 2**

<u>Protein</u>	ITCH isoform 2 1-862 (full length)
<u>Synonyms</u>	AIF4, AIP4, NAPP1
<u>Clone Number</u>	DU11097
<u>Species</u>	human
<u>Accession Number</u>	NP_113671
<u>Tags</u>	N-terminal GST-tag
Aminoacid sequence of the expressed protein	MSPILGYWKIKGLVQPTRLLEYLEEKYEEHLYERDEGDKWRNKKFELGL EFPNLPYYIDGDVKLTQSMAIIRYIADKHNMLGGCPKERAEISMLEGAVL DIRYGVSRIAYSKDFETLKVDFLSKLPPEMLKMFEDRLCHKTYLNGDHVTH PDFMLYDALDVVLYMDPMLCLDAFPKLVCFKKRIEAIPOIDKYLKSSKYIA WPLQGWQATFGGGDHPKSDLEVLFOGPLGSMDSGSQLGSMGSLTMKSQ LQITVISAKLKENKKNWFGSPYVEVTVDGQSKKTEKCNNTNSPKWKQPL TVIVTPVSKLHFRVWSHOTLKSVDLLGTAALDIYETLKSNNMKLEEVVVT LQLGGDKPEPTETIGDLSICLDGLQLESEVVTNGETTCSESASQNDGSR KDETRVSTNGSDDPEDAGAGENRRVSGNNSPLSNGGFKPSRPPRPSRPP PPTPRRPASVNGSPSATSESDGSSTGSLPPTNTNTNTSEGATSGLIIPLT ISGGSGPRPLNPVTQAPLPPGWEQRVDQHGRVYVDHVEKRRTTWRPEPL PPGWERRVDNMGRIYYVDHFTRTTTWQRPTLESVRNYEQWQLORSQLOGA MQQFNQRFIYGNQDLFATSQSKEFDPLGPLPPGWEKRTDSNGRVYFVNH TRITQWEDPRSQQLNEKPLPEGWEMRFTVDGIPYFVDHNRRTTTYIDPR TGKSALDNGPQIAYVRDFKAKVQYFRFWCQQLAMPQHIKITVTRKTLFED SFQQIMSFSPQDLRRRLWVIFPGEEGLDYGGVAREWFFLLSHEVLNPMYC LFEYAGKDNYCLQINPASYINPDHLKYFRFIGRFIAMALFHGKFIDTGFS LPFYKRILNKPVGLKDLESIDPEFYNSLIWVKENNIEECDLEMYFSVDKE ILGEIKSHDLKPNGGNILVTEENKEEYIRMVAEWRLSRGVVEQTOAFFEG FNEILPQQYLQYFDAKELEVLLCGMQEIDLNDWQRHAIYRHYARTSKQIM WFWQFVKEIDNEKRMRLLOFVTGTCLRPVGGFADLMGSNGPQKFCIEKVG KENWLPRSHTCFNRDLPPYKSYEQLKEKLLFAIEETEGFGQE
Native sequence	in bold
Protease cleavage	Precision Protease site underlined
Cloning sites	BamH1 / Not1

DNA sequence of insert

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CATGAAATCACAGCTTCAGATCACTGTCATCTCAGCAAACTTAAGGAAA
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CGC