

Division of Signal Transduction Therapy

Standard Operation Procedure

Preparation of GST-DEN1 [C163A]

Enzyme description:- GST-DEN1 [C163A]

Clone number:- DU20779

Source:- BL21 Recombinant

Tag:- N-terminal GST tag

Purification method:- GSH sepharose

Expression level:- 6 mg/L

Calculated molecular mass:-

Monoisotopic 51534 Da

Average Mass 51566 Da

[cysteines reduced, methionines have not been oxidised]

Theoretical pI:- 5.65

Purity:- 90%

Enzyme storage buffer:-

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

Storage temperature:- -80°C

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Clone Data Sheet

GST-DEN1 [C163A]

<u>Protein</u>	GST-DEN1 [C163A]
<u>Synonyms</u>	SENP8, NEDP1, PRSC2
<u>Clone Number</u>	SC20779
<u>Species</u>	Human
<u>Accession Number</u>	Protein: Q96LD8 DNA: NM145204.3
<u>Tags</u>	N-terminal GST tag
<u>Amino acid sequence of expressed protein</u>	MSPILGYWKIKGLVQPTRLLLEYLEEKYEEHLYERDEGDKWRNKKFELGL EFPNLPYYIDGDVKLTSMAIIRYIADKHNMLGGCPKERAEISMLEGAVL DIRYGVSRIAYSKDFETLKVDFLSKLPPEMLKMFEDRLCHKTYLNGDHVTH PDFMLYDALDVVLYMDPMCLDAFPKLVCFKKRIEAIPOIDKYLKSSKYIA WPLQGWQATFGGGDHPKSDLEVLVFGPLGSPNSRVD MDPVVLSYMSLL RQSDVSLLDPPSWLNDHIIGFAFEYFANSQFHDCSDHVSFISPEVTQFIK CTSNPAEIAMFLEPLDLPNKRVVFLAINDNSNQAAAGTHWSLLVYLQDKN SFFHYDHSRSNSVHAKQVAEKLEAFLGRKGDKLAFVEEKAPAQQNSYDA GMVICNTEALCQNFRRQQTESLLQLLTPAYITKKRGEWKDLITTLAKK
<u>Native sequence</u>	in bold
<u>Protease cleavage</u>	site underlined
<u>Cloning sites</u>	Sall/NotI
<u>DNA sequence of insert</u>	GTCGACATGGACCCCGTAGTCTTGAGTTACATGGACAGTCTACTGCGGCA ATCAGATGTCTCACTATTGGATCCGCCAAGCTGGCTCAATGACCATATTA TTGGGTTTTGCGTTTTGAGTACTTTGCCAACAGTCAGTTTCATGACTGCTCT GATCACGTCAGTTTCATCAGCCCTGAAGTCACCCAGTTCATCAAGTGCAC TAGCAACCCAGCAGAGATTGCCATGTTCCCTTGAACCACTGGACCTCCCA ACAAGAGAGTTGTATTTTTAGCCATCAATGATAACTCCAACCAGGCAGCT GGAGGAACCCACTGGAGTTTATTTGGTCTACCTCCAAGATAAAAAATAGCTT TTTTTATTATGATTCCCATAGCAGGAGCAACTCAGTTCACGCAAAGCAGG TAGCAGAGAAACTGGAGGCTTTCTTAGGCAGAAAAGGAGACAAACTGGCC TTTGTGGAAGAGAAAAGCCCTGCCCAACAAAACAGCTATGACGCTGGGAT GTACGTGATATGTAACACTGAGGCCTTGTGTCAGAACTTCCTTAGGCAAC AGACAGAATCACTGCTGCAGCTACTCACCCCTGCATACATCACAAAGAAG AGGGGAGAATGGAAAGATCTCATTACCACACTTGCTAAAAAGTAGGCGGC CGC