

*Division of Signal Transduction Therapy*

**Standard Operation Procedure**

**Preparation of CAND1 1-1230**

<b><u>Enzyme description:-</u></b>	CAND1
<b><u>Clone number:-</u></b>	DU24006
<b><u>Source:-</u></b>	BL21 recombinant
<b><u>Tag:-</u></b>	cleaved from N-terminal GST
<b><u>Purification method:-</u></b>	GSH-Sepharose
<b><u>Expression level:-</u></b>	1mg/L
<b><u>Calculated molecular mass:-</u></b>	
Monoisotopic	137678 Da
Average Mass	137761 Da
[cysteines reduced, methionines have not been oxidised]	
<b><u>Theoretical pI:-</u></b>	6.39
<b><u>Purity:-</u></b>	90%
<b><u>Enzyme storage buffer:-</u></b>	
50mM HEPES pH 7.5, 150mM NaCl, 10% glycerol, 1mM DTT	
<b><u>Storage temperature:-</u></b>	-80°C
<b><u>Assay:-</u></b>	

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**Clone Data Sheet**

**CAND1 1-1230**

**Protein** CAND1  
**Synonyms** TIP120  
**Clone Number** DU24006  
**Species** Human  
**Accession Number** Protein: Q86VP6  
**Tags** cleaved from N-terminal GST

Aminoacid sequence of the expressed protein

GPLGSPGIPGSTRAAAMASASYHISNLLKMTSSDKDFRFRMATNDLMTEL  
**QKDSIKLDDDSERKVVKMILKLLLEDKNGEVQNLAVKCLGPLVSKVKEYQV**  
**ETIVDTLCTNMLSDKEQLRDISSIGLKTVIGELPPASSGSALAANVCKKI**  
**TGRLTSAIAKQEDVSVQLEALDIMADMLSRQGGLLVNFHPSILTCLLPQL**  
**TSPRLAVRKRTIIALGHLVMSCGNIVFVDLIEHLLSELSKNDSMSTRTY**  
**IQCIAAISRQAGHRIGEYLEKI IPLVVKFCNVDDDELREYCIQAFESFVR**  
**RCPKEVYPHVSTIINICLKYLTYDPNPNYDDEDEDENAMDADGGDDDDQG**  
**SDDEYSDDDDMSWKVRRRAAKCLDAVVSTRHEMLPEFYKTVSPALISRFK**  
**EREENVKADV FHAYLSLLKQTRPVQSWLCDPDAMEQGETPLTMLQSQVFN**  
**IVKALHKQMKESVKTRQCCFNMLTELNVNLPGALTQHIPVLVPGIIFSL**  
**NDKSSSSNLKIDALSCLYVILCNHSPQVFHHPVQALVPPVVACVGDPFYK**  
**ITSEALLVTQQLVKVIRPLDQPSFDPATPYIKDLFTCTIKRLKAADIDQE**  
**VKERAISCMGQIICNLGDNLGSDDLNTLQIFLERLKNEITRLTTVKALTL**  
**IAGSPLKIDLRPVLGEGVPI LASFLRKNQRALKGLTALSALDILIKNYSDS**  
**LTAAMIDAVLDELPLISESDMHVSQMAISFLTTLAKVYPSLSKISGSI**  
**LNELIGLVRSPLLQGGALSAMLDFFQALVVTGTNNLGYMDLLRMLTGPVY**  
**SQSTALTHKQSYYSIAKVAALTRACPKEGPAVVGGQFIQDVKNRSRSTDSI**  
**RLLALLSLGVEVGHIDLSGQLELKSIVILEAFSSPSEEVKSAASYALGIS**  
**VGNLPEYLPFVLOEITSQPKROYLLLHSLKEI ISSASVVGPKPYVENIWA**  
**LLKHCECAEEGTRNVVAECLGKLTLDIPETLLPRLKGYLISGSSYARSS**  
**VVTAVKFTISDHPQPIDPLLKNCIGDFLKTLEDPLNVRRVALVTFNSAA**  
**HNKPSLIRDLLDTVLPFLYNETKVRKELIREVEMGPFKHTVDDGLDIRKA**  
**AFECMYTLLDSCLDRLDIFEFLNHVEDGLKDHYDIKMLTFLMLVRLSTLC**  
**PSAVLQRLDRLVEPLRATCTTKVKANSVKQEFQDELKRSAMRAVAALL**  
**TIPEAEKSPLMSEFQSQI SSNPELAAIFESI QKDSSSTNLESMDTS**

Native sequence in bold

Cloning sites NotI/NotI

**DNA sequence of  
expression  
cassettes**

atgtcccctatactaggttattggaaaattaagggccttgtgcaaccac  
tcgacttcttttgaatatcttgaagaaaaatatgaagagcatttgtatg  
agcgcgatgaaggtgataaatggcgaacaaaaagtttgaattgggtttg  
gagtttcccaatcttcttattatattgatggtgatgttaaattaacaca  
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CTCCCTTTCAAAGATAAGTGGATCCATTCTCAATGAACTTATTGGACTTG  
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CAATTTCTGACCATCCACAACCTATTGATCCACTGTTAAAGAACTGCATA  
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GTCCACTGATGAGTGAATTCAGTCACAGATCAGTTCTAACCCTGAGCTG  
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ATCAATGGACACTAGTTAGgcgccgc