

Division of Signal Transduction Therapy

Standard Operation Procedure

Preparation of SART3

<u>Enzyme description:-</u>	SART3
<u>Clone number:-</u>	DU42352
<u>Source:-</u>	BL21 recombinant
<u>Tag:-</u>	N-terminal GST
<u>Purification method:-</u>	GSH-Sepharose
<u>Expression level:-</u>	0.2mg/L
<u>Calculated molecular mass:-</u>	
Monoisotopic	136671Da
Average Mass	136752Da
[cysteines reduced, methionines have not been oxidised]	
<u>Theoretical pI:-</u>	5.57
<u>Purity:-</u>	60%
<u>Enzyme storage buffer:-</u>	
50mM HEPES pH 7.5, 150mM NaCl, 10% glycerol, 1mM DTT	
<u>Storage temperature:-</u>	-80°C
<u>Assay:-</u>	

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Clone Data Sheet

SART3

Protein SART3
Synonyms TIP110
Clone Number DU42352
Species Human
Accession Number Protein: Q15020
Tags N-terminal GST

Aminoacid sequence of the expressed protein

MSPILGYWKIKGLVQPTRLLLEYLEEKYEEHLYERDEGDKWRNKKFELGLEF
PNLPYYIDGDVKLTQSMATIRYIADKHNMLGGCPKERAETISMLEGAVLDIRY
GVSRIAYSKDFETLKVDFLSKLPEMLKMFEDRLCHKTYLNGDHVTHPDFMLY
DALDVVLYMDPMCLDAFPKLVCFKKRIEAIPOIDKYLKSSKYIAWPLOGWQA
TFGGGDHPPKSDLEVLFGPLGSMATAAETSASEPEAESKAGPKADGEEDEV
KAARTRRKVLSRAVAAATYKTMGPAWDQQEEGVSESDGDEYAMASSAESSPG
EYEWYDEEEKNQLEIERLEEQLSINVYDYNCHVDLIRLLRLEGELTKVRM
ARQKMSEIFPLTEELWLEWLHDEISMAQDGLDREHVYDLFEKAVKDYICPNI
WLEYGQYSVGGIGQKGGLEKVRSVFERALSSVGLHMTKGLALWEAYREFESA
IVEAARLEKVHSLFRRLAIPLYDMEATFAEYEEWSEDPIPESVIQNYNKAL
QOLEKYKPYEEALLQAEAPRLAEYQAYIDFEMKIGDPARIQLIFERALVENC
LVPDLWIRYSQYLDRLQKVKDLVLSVHNRAIRNCPWTVALWSRYLLAMERHG
VDHQVISVTFEKALNAGFIQATDYVEIWQAYLDYLRRRVDFKQDSSKELEEL
RAAFTRALEYLKQEEVERFNESEGDPSVIMQNWARIEARLCNNMQKARELWD
SIMTRGNAKYANMWLEYYNLERAHGDTQHCRKALHRAVQCTSDYPEHVCEVL
LTMERTEGSLEDWDIAVQKTETRLARVNEQRMKAAEKEAALVQEEEEKAEQR
KRARAEKKALKKKKKIRGPEKRGADEDDEKEWGDDEEEQPSKRRRVENSIPA
AGETQNVEVAAGPAGKCAAVDVEPPSKQKEKAASLKRDMPKVLHDSSKDSIT
VFVSNLPYSMQEPDTKLRPLFEACGEVVQIRPIFSNRGDFRGYCYVEFKEEK
SALQALEMDRKSVEGRPMFVSPCVDKSKNPDKVFRYSTSLEKHKLFISGLP
FSCTKEELEEICKAHGTVKDLRLVTNRAGKPKGLAYVEYENESQASQAVMMK
DGMTIKENIIKVAISNPPQQRKVPEKPETRKAPGGPMLLPQTYGARGKGRTOQL
SLLPRALQRPSAAAPQAENGPAAPAVAAPAATEAPKMSNADFAKLFLRK

Native sequence in bold

Cloning sites BglII/NotI into BamHI/NotI

**DNA sequence of
insert**

ATGGCGACTGCGGCCGAAACCTCGGCTTCAGAACCCGAGGCTGAGTCC
AAGGCTGGGCCCAAGGCTGACGGAGAGGAGGATGAGGTTAAGGCGGCT
AGGACAAGGAGAAAGGTGTTATCGCGGGCTGTGGCCGCTGCGACATAC
AAGACCATGGGGCCAGCGTGGGATCAGCAGGAGGAAGGCGTGAGCGAG
AGCGATGGGGATGAGTACGCCATGGCTTCCTCCGCGGAGAGCTCCCCC
GGGGAGTACGAGTGGGAATATGACGAAGAGGAGGAGAAAAACCAGCTG
GAGATTGAGAGACTGGAGGAGCAGTTGTCTATCAACGTCTATGACTAC
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ACCAAGGTGAGGATGGCCCCGCCAGAAGATGAGTGAAATCTTTCCCTTG
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CAGGATGGCCTGGACAGAGAGCACGTGTATGACCTCTTTGAGAAAGCC
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ACCGTCTTTGTCTAGCAACCTGCCCTACAGCATGCAGGAGCCGGACACG
AAGCTCAGGCCACTCTTCGAGGCCTGTGGGGAGGTGGTCCAGATCCGA
CCCATCTTCAGCAACCGTGGGGATTTCCGAGGTTACTGCTACGTGGAG
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CACAAGCTGTTTATCTCAGGCCTGCCTTCTCTCTGTACTAAAGAGGAA
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GTCACCAACCGGGCTGGCAAACCAAGGGCCTGGCCTACGTGGAGTAT
GAAAATGAATCCCAGGCGTCGCAGGCTGTGATGAAGATGGACGGCATG
ACTATCAAAGAGAACATCATCAAAGTGGCAATCAGCAACCCCTCCTCAG
AGGAAAGTTCCAGAGAAGCCAGAGACCAGGAAGGCACCAGGTGGCCCC

ATGCTTTTGCCGCAGACATACGGAGCGAGGGGGAAGGGAAGGACGCAG
CTGTCTCTACTGCCTCGTGCCCTGCAGCGCCCAAGTGCTGCAGCTCCT
CAGGCTGAGAACGGCCCTGCCGCGGCTCCTGCAGTTGCCGCCCCAGCA
GCCACCGAGGCACCCAAGATGTCCAATGCCGATTTTGCCAAGCTGTTT
CTGAGAAAGTGA