

Product datasheet for **RC225848**

GPBP1 (NM_001127235) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	Myc-DDK
Symbol:	GPBP1
Synonyms:	GPBP; SSH6; VASCULIN
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



ORF Nucleotide Sequence: >RC225848 representing NM_001127235
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCGCGATCGCC

ATGGCGCAGCATGACTTTGCTCCAGCCTGGCTTAATTTCCCTACTCCACCATCATCAACAAAGTCCTGA
 CCAGCAGTTTGAATCGTCATTGAATTTGAGAAGCATTCTGAAAACCTTGCATGGACAGAGAATCGTTA
 TGATGTGAACCGTCGACGACACAACCTCTCAGATGGCTTTGATTCTGCTATTGGGCGTCCTAATGGAGGT
 AACTTTGGAAGGAAAGAAAAAATGGATGGCGTACACATGGAAGAAATGGTACAGAAACATAAATCATC
 GAGGTGGATACCATGGTGAAGTTCCTGTTCTCGTAGCAGTATTTCCATGCAGGAAAAAGCCAAGGACT
 ACATGAAAAACAACATACCTGACAATGAAACCGGAGGAAAGACAAGAGAGAACGCAACAGTTTGAA
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 GTGTGTGGGAATATCCTCCGAATCTAAATCTAGAGCTCAAGGATGCTGGTCATTAAGAAAGGTAATAC
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 GCCTCAGTGATTTCCAGCAGATCATTGGTCTTCAACCTCCACAACTGATGTTCTTTCAAGTTCAC
 TTGAGGCAGAACACAGATTGTTAAAGGAAATGGCTGGCAGGAAGACAGTGAATGATGAACATGTGC
 TCCCTTAAGTGAAGATGAAATGAGAGAATCCAAAGTTATTAGTGAACAGTTACAGAAGAATGGTCTGAGA
 AAAAAATGGTATTTGAAAAATGGCTTGATCTGTGACTTCAAGTTTGGACCGTGAAGAACAGCACTTTCA
 AACCCCAACTGAGAATGATGACACAGAGACAAGTAGCAGTGATACATCAGATGACGACGATGTG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC225848 representing NM_001127235
 Red=Cloning site Green=Tags(s)

MAQHDFAPAWLNFPTPPSSTKVLTSLLKSSLNFEKHSENFADWENRYDVNRRRHNSSDGFDSDAIGRPNGG
 NFGREKNGWRTHGRNGTENINHRGGYHGGSSRSRSSFHAGKSQGLHNNIPDNETGRKEDKRERKQFE
 AEDFPSLNPEYEREPNHNKSLAAGVWEYPPNPKSRAPRMLVIKKGNTKDLQLSGFPVVGNLPSQPVKNGT
 GPSVYKGLVPKPAAPPTKPTQWKSQTKENKVGTSFPHESTFGVGNFNAFKSTAKNFSPTNSVKEQPRLT
 KLTRMRDCKSEFLKALKRDRVEEHEDESRAGSEKDDDSFNLHNSNSTHQERDINRNFDENEIPQENG
 ASVISQIIIRSSFTFQTDVLSLSLEAEHRLKEMGWQEDSENETCAPLTEDEMREFQVISEQLQKNGLR
 KNGILKNGLICDFKFGPWKNSTFKPTTENDDTETSSSDTSDDDDV

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk8063_c09.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001127235

ORF Size: 1395 bp

OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

Reconstitution Method:

1. Centrifuge at 5,000xg for 5min.
2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
3. Close the tube and incubate for 10 minutes at room temperature.
4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.
5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_001127235.2](#), [NP_001120707.2](#)

RefSeq ORF: 1398 bp

Locus ID: 65056

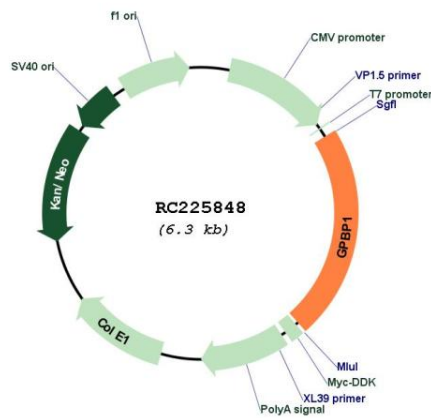
UniProt ID: [Q86WP2](#)

Cytogenetics: 5q11.2

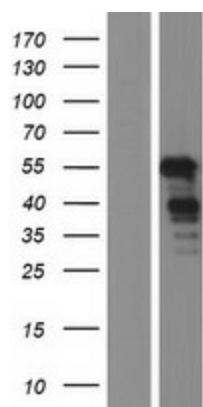
MW: 52.3 kDa

Gene Summary: This gene was originally isolated by subtractive hybridization of cDNAs expressed in atherosclerotic plaques with a thrombus, and was found to be expressed only in vascular smooth muscle cells. However, a shorter splice variant was found to be more ubiquitously expressed. This protein is suggested to play a role in the development of atherosclerosis. Studies in mice suggest that it may also function as a GC-rich promoter-specific trans-activating transcription factor. Several alternatively spliced transcript variants encoding different isoforms have been described for this gene. [provided by RefSeq, Feb 2011]

Product images:



Circular map for RC225848



Western blot validation of overexpression lysate (Cat# [LY426732]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC225848 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).