

Product datasheet for **RC213837**

PGAP1 (NM_024989) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PGAP1 (NM_024989) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	PGAP1
Synonyms:	Bst1; ISPD3024; MRT42; NEDDSBA; SPG67
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

ORF Nucleotide
Sequence:

>RC213837 representing NM_024989
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGTTTCTTCACTCAGTTAATCTCTGGAACCTGGCGTTTTATGTCTTCATGGTCTTTCTGGCAACCTGG
GGCTGTGGGATGTCTTCTCGGCTTCGAGGAGAATAAGTGCAGTATGAGCTACATGTTTGAGTACCGGA
GTATCAGAAAATAGAACTTCCAAAGAACTGGCAAAACGCTATCCCGCATATGAGTTGTATCTTTATGGA
GAGGGATCCTATGCTGAAGAACAACAAAATTCTCCCTTTGACGGGTATTCCAGTTCTCTTTCTTCTGGTA
ATGCTGGAAGTTATAAGCAAGTTCGTTCTATTGGCTCCATTGCACTTAGAAAAGCAGAGGACATTGACTT
CAAGTACCCTTTGACTTCTTTAGTGTGAACCTCAATGAAGAAGTGGTGGCTTTGTATGGTGAAGTCTT
CAGAAGCAGACCAAGTTGTACATGAATGTATTAACAATTCTCAAACCTATAAGGGTCAAGAATTTG
CTCCAAAAGTGTGGCAATAATTGGTCATTCTATGGGTGGCCTTGTGCAAGAGCATTGCTTACACTGAA
AAATTTAAGCATGATCTGATAAATCTTCTTATTACACAAGCCACACCTCATGTTGCTCCTGTGATGCCA
TTAGATCGTTTCATTACAGATTTTTATACGACTGTAACAACCTATTGGATTCTAAATGCTCGACACATAA
ATTTAACCACACTTTCTGTAGCTGGAGGATCCGGGATTACCAAGTTCGTTCCAGGATTGACTTTTTCTACC
AAAATTAAGCCATCATACCAGTGCCTTATCTGTTGTGAGTTCAGCAGTGCCTAAGACCTGGGTCTCAACA
GACCACCTCTCCATTGTGTGGTGTAAACAATTGCAGTTGACTACAGTTCGAGCATTCTTTGATCTTATTG
ATGCTGATACTAAACAAATAACTCAAAATTCGAAGAAGAACTGTGAGTTTTGTATCACCCTTTATAAG
ACCCCATCAAAACATTTTGAGGAAAATCCAGCTATAATTTCTGACTTAACAGGGACATCTATGTGGTT
CTAGTAAAAGTGTCCAAATGGACCTATGTAGCTTACAACGAATCTGAGAAGATATATTTTACATTTCCCT
TTGAAAATCATAGAAAAATCTACTCATGTCTATTGTGAGCAGTATGCTGGATACAAATAGTTGGAT
TTTTGCTTGCATAAACAGCACTTCTATGTGCTGCAAGGGTTGATTTATCATGGAAGCTGAAGTGGT
CCAACAATTAAGTATCTGACATTAAGACTTCAAGACTATCCATCTTTGTCTCATCTTGTGTTTATGTAC
CATCTGTTGCTGGAAGTAAGTTTGTGTAGATTGTGAATCTTTAAAAAGAGAAAAGATACATACAGCT
TCCTGTAACCTCATCTTTTTCTTTGGATTGTCTTCAAGGAAAGTGGTGTAAATACAAATGGCCTATAC
TACAATCTAGAGCTTCTGAACCTTTGACAGATATACCAAGCTTTTAAAATCAACGTGGTAAGCAAGTGT
CAGCAGTCAAAGAAGAAATAACCAAGTATCTATAGACTTCATATTCCTTGGTCTTATGAAGATTCATAAC
CATTGCACAGGCTCCATCTTCCACAGAAATTTCTGAAACTCCATATTGCTCAACCAGAAAACAATACC
CATGTGGCATTATTTAAAATGTACAGTCACTGACTGTCGGTACGAGGTGACAGTTAAGACTTCCTTTT
CACAAATACTGGACAGGTAGTTAGATTTATGTTGGAGCTCTTCTGCTTATGTGATCTAATATCCT
TCTTGCTTATAGAGGACAGTTATATTCTTTTTCTCAACAGGTTGTTGCTTAGAATATGCTACCATGTTG
GATAAAGAAGCCAAACCATACAAAGTTGATCCTTTTGAATTAATCATTAAAGTTTCTGTTGGGGTATAAAT
GGTTTAAAGAATTGTGGGATGATTATTGTTACCAGAATTAGATGCCGTCATTTTAACTGTGAGAGTAT
GTGTTTCCCTGATATCCTTGATTCTCTTTCTGTTTGAACGTGACTGCCTACTGGAGTGGCCTACTG
TCTTCTGCATCTGTGAGACTTCTTCTTCTTATTGTGGCTAGCTTTGAAAAGACCCTCTGAACCTCCTAAAG
ATATCAAGATGATATCACCAGACTTGCCTTTTGAACAATTGTCTTGATCATAGTTAGTTGGACAACCTG
TGGAGCACTAGCCATACTTCTTTCTTACTTTACTATGTGTTTAAAGTTGTTTCACTGCAAGCCAGCTTA
ACAACCTTTAAGAATAGCCAGCCTGTGAATCCCAACACTCTAGAAGAAGTGAAGAAGAAATCCAATCATC
ATAAAGACTCCTCAATACACCATCTTCTGTTTATCTGCCAAGGATGCTGAAGATAGCCTTCGCATGCACAG
TACTGTGATTAACCTACTAACATGGATTGTATTACTCAGCATGCCTTCTTAATTTATTGGCTAAAGAAT
CTTAGGATATTTTTAACTTAATCCTGATCCATGTAACCTTTGGCATTATCCTTATTCCGACTATGG
CAATCTTGAAATACTTACTGTTTCAATAAAATCAAGTAAATTTGTTGAAGACTACTTACAATTTCC
ACTTCTCTGGCTGTTGGTGTGATTGCTTTTGGGTGAGCAGCATTATATAGGCTCCATGCTTTGTCTTC
ATTCCTTTTTACTCCATGCATTATGCAACTTTATG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC213837 representing NM_024989
 Red=Cloning site Green=Tags(s)

MFLHSVNLWNLAFYVFMVFLATLGLWDVFFGFEENKCSMSYMFYPEYQKIELPKKLAKRYPAYELLYG
 EGSYAEHKILPLTGIPVFLPGNAGSYQVRSIGSIALRKAEDIDFKYHDFFSVNFNEELVALYGGSL
 QKQTKFVHECIKILKL YKQEFAPKSVAIIGHSMGGLVARALL TLKNFKHDLINLLITQATPHVAPVMP
 LDRFITDFYTTVNNYWILNARHINLTTLSVAGGFRDYQVRSGLTFLPKLSHHTSALS SVSSAVPKTWST
 DHL SI VWCKQLQLTTVRAFFDLIDADTKQITQNSKKLSVLYHHFIRHPSKHFEENPAIISDLTGTSMWV
 LVKVS KWTVYAYNESEKIYFTFPLENHRKIYTHVYCQSTMLDNTNSWIFACINSTSMCLQGVDLSWKAELL
 PTIKYLT LRLQDYP SLSHLVVYVPSVRGSKFVVDCEFFKKEKRYIQLPVTHLFSFGLSSRKVVLNTNGLY
 YNLELLNFGQIYQAFKINVVSKCSAVKEEITSIYRLHIPWSYEDSLTIAQAPSSTEISLKLHIAQPENNT
 HVALFKMYTSSDCRYEVTVKTSFSQILGQVVRFHGGALPAYVSNILLAYRGLYSLFSTGCCLEYATML
 DKEAKPYKVPFVIIKFLGKWFKELWDVLLPELDAVILTCQSMCFPLISLILFLFGTCTAYWSGLL
 SSASVRLSSLWLALKRPEL PKDIKMI SPDL PFLTIVL IIVSWTTCGALAILLSYLYYVFKVHLQASL
 TTFKNSQPVNPKHSRRSEKSNHHKDSIHLRLSANDAEDSLRMHSTVINLLTWIVLLSMPSLIYWLKN
 LRYYFKLNPDPCKPLAFILIPTMAILGNTYTVSIKSSKLLKTT SQFPLPLAVGVIAFGSAHLYRLPCFVF
 IPLLLHALCNFM

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk8103_a11.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



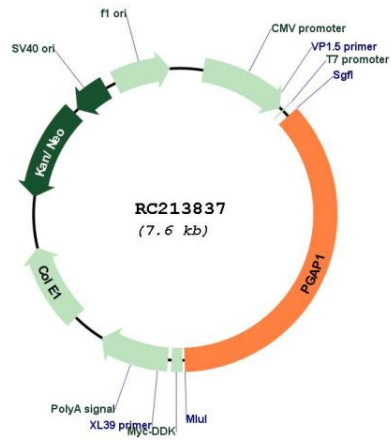
* The last codon before the Stop codon of the ORF

ACCN: NM_024989

ORF Size: 2766 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:	<ol style="list-style-type: none"> 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.
RefSeq:	NM_024989.4
RefSeq Size:	11113 bp
RefSeq ORF:	2769 bp
Locus ID:	80055
UniProt ID:	Q75T13
Cytogenetics:	2q33.1
Protein Families:	Druggable Genome, Transmembrane
Protein Pathways:	Glycosylphosphatidylinositol(GPI)-anchor biosynthesis, Metabolic pathways
MW:	105.4 kDa
Gene Summary:	The protein encoded by this gene functions early in the glycosylphosphatidylinositol (GPI) biosynthetic pathway, catalyzing the inositol deacylation of GPI. The encoded protein is required for the production of GPI that can attach to proteins, and this may be an important factor in the transport of GPI-anchored proteins from the endoplasmic reticulum to the Golgi. Defects in this gene are a cause an autosomal recessive form of cognitive impairment. [provided by RefSeq, Jul 2017]

Product images:



Circular map for RC213837