

Product datasheet for RC203302

SIAH Interacting Protein (CACYPB) (NM_014412) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SIAH Interacting Protein (CACYPB) (NM_014412) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	SIAH Interacting Protein
Synonyms:	GIG5; PNAS-107; S100A6BP; SIP
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC203302 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCCGCC**CGATCGCC**

ATGGCTTCAGAAGAGCTACAGAAAGATCTAGAAGAGGTAAGGTGTTGCTGGAAAAGGCTACTAGGAAAA
GAGTACGTGATGCCCTTACAGCTGAAAAATCCAAGATTGAGACAGAAATCAAGAACAAGATGCAACAGAA
ATCACAGAAGAAAGCAGAACTTCTTGATAATGAAAAACCAGCTGCTGTGGTTGCTCCATTACAACGGGC
TATACGGTGAAAAATCAGTAATTATGGATGGGATCAGTCAGATAAGTTTGTGAAAAATCTACATTACCTTAA
CTGGAGTTCATCAAGTTCCTCACTGAGAATGTGCAGGTGCATTTACAGAGAGGTCATTTGATCTTTTGGT
AAAGAATCTAAATGGGAAGAGTTACTCCATGATTGTGAACAATCTCTTGAAACCCATCTCTGTGGAAGGC
AGTTCAAAAAAGTCAAGACTGATACAGTCTTATATTGTGTAGAAAGAAAGTGGAAAACACAAGGTGGG
ATTACCTGACCCAGGTTGAAAAGGAGTGCAAAGAAAAAGAGAAGCCCTCCTATGACACTGAAACAGATCC
TAGTGAGGGATTGATGAATGTTCTAAAGAAAATTTATGAAGATGGAGACGATGATGAAGCGAACCATT
AATAAAGCCTGGGTGGAATCAAGAGAGAAGCAAGCCAAAGGAGACACGGAATTT

ACGCGTACGCGGCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC203302 protein sequence
 Red=Cloning site Green=Tags(s)

MASEELQKDL EEVKV LLEKAT RKRVR DALTA ESK IETE IKNKM QQS QKKA ELLD NEKPA AVVAP ITTG
 YTVKIS NYGWD QSDK FVKI YITL TGVHQ VPTEN VQVHF TERSFD LLVKNL NGKSY SMIVN LLKPI SVEG
 SSKKVK TDTVL ILCRKK VENTRWD YLTQVE KEKEKE KPSYD TE TDPSEGL MNVLK KIYEDG DDDMK RTI
 NKAWVES REKQAKGDTEF

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6416_h10.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_014412

ORF Size: 684 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_014412.3](#)

RefSeq Size: 3060 bp

RefSeq ORF: 687 bp

Locus ID: 27101

UniProt ID: [Q9HB71](#)

Cytogenetics: 1q25.1

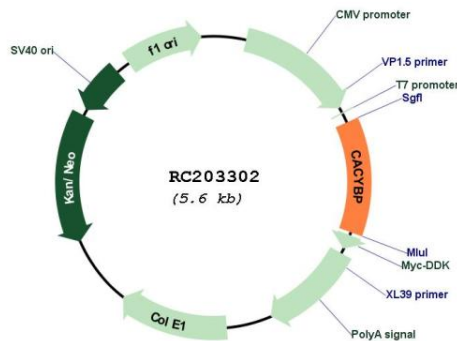
Domains: SGS

Protein Pathways: Wnt signaling pathway

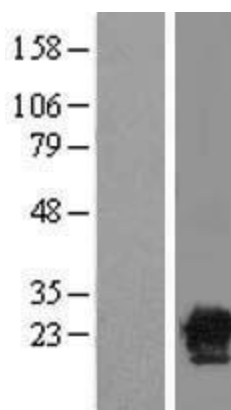
MW: 26.2 kDa

Gene Summary: The protein encoded by this gene is a calcyclin binding protein. It may be involved in calcium-dependent ubiquitination and subsequent proteosomal degradation of target proteins. It probably serves as a molecular bridge in ubiquitin E3 complexes and participates in the ubiquitin-mediated degradation of beta-catenin. Two alternatively spliced transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jul 2008]

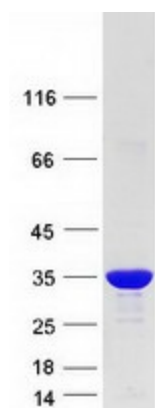
Product images:



Circular map for RC203302



Western blot validation of overexpression lysate (Cat# [LY415305]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC203302 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified CACYBP protein (Cat# [TP303302]). The protein was produced from HEK293T cells transfected with CACYBP cDNA clone (Cat# RC203302) using MegaTran 2.0 (Cat# [TT210002]).