

## Product datasheet for RC209056

### SEC23IP (NM\_007190) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	SEC23IP (NM_007190) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	SEC23IP
Synonyms:	iPLA1beta; MSTP053; P125; P125A
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC209056 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGCCGAGAGAAAACCTAACGGTGGCAGCGGGCGCCTCCACTTCCTCATCGGGCACTAACTACTTT  
TCTCCTCTCGGCCACGGAGTTCAGCTTCAATGTGCCCTTCATCCCAGTCACCCAGGCCCTCCGCTTCTCC  
GGCCTCCCTGCTTTACCGGGAGAGGATTCCACAGATGTTGGTGAGGAGGACAGCTTCCTTGGTCAGACT  
TCTATTCACACATCTGCCCCACAGACATTTAGTTACTTCTCTCAGGTATCAAGCAGCAGTGATCCTTTTG  
GGAATATTGGACAGTCACCATTAACAATGCAGCAACCTCAGTTGGACAATCAGGATTCCTCAAGCCCT  
GACTGCTCTCCCTTTTAACTGGATCCCAAGATGTCTCGAATGCATTTTACCATTCCATTCGAAGGCT  
CAACCTGGTGCTCCACCTTCCTCACTGATGGGAATAAATCTTATCTGCCTTCTCAGCCAAGTAGTCTCC  
CTCCTTCAATTTTGGGAACCAACCCCAAGGAATTCCTCAACAGGATACAATCCATATCGCCATACCCC  
TGGCAGCAGCAGGGCTAATCCTTACATTGCACCACCCAGCTGCAGCAGTGCCAAACACCAGGCCCTCCT  
GCTCATCTCCACCTTCTGGACCCCTGTTTCAGATGTACCAGATGCCTCCAGGATCTTTGCCACCGGTT  
CTTCTTCAGTGCAGTCACCGGCACAGCAGCAGGTACCTGCCAGACCTGGGGCTCCCTCTGTTCAAGTGCC  
ATCTCCTTTTCTACTTCAAACCAATATGAGCCTGTTTCAGCCCCACTGGTTTTACTGCAAGGAGGTAGAA  
TACAAACAACCTGTGGATGCCTTTTAGTGTGTTTCGACTCTTGAATCTTGAAGAAATCTAATTCAGTTC  
AGCCAGATCCGGAGAGCGTGTTCTTGGCACGGATGGAGGGCGCTACGATGTTTACCTCTATGACCGAAT  
AAGGAAGGCTGCCTACTGGGAAGAGGAGCCAGCCGAAGTGAGACGCTGTACTTGGTTTTACAAGGGGAC  
ACAGATAGTCGATTTATCCCTATACTAGGAGTTCAGTGAAAACTAGAGGCTGAATATAAAAAAGCTG  
TAACCACTAATCAGTGGCACCAGGATTAGAGTTTCCAAGTGGAGAGACAATTGTTATGCACAATCCAAA  
GGTTATTGTTTCAGTTCAGCCCTCCTCAGTGCCAGATGAATGGGGCACCACGCAAGATGGACAGACAAGG  
CCCAGGTTGTAAGCGTGGAATTGATGATAACCTTGATGAAATCCCGACGGGGAGATGCCTCAAGTTG  
ACCATTTGGTGTGTTGTTGTCATGGCATTGGACCTGTGTGTGACTTACGCTTTAGGAGCATTATTGAGTG  
TGTGGATGATTTAGGGTGGTTTCTCTCAAATGCTGCGGACACATTTCAAGAAATCTTTAGATGACGGG



[View online »](#)

AAAGTAAGCAGAGTGGAGTTCCTTCCAGTTCATTGGCATAGTTCTTTGGGTGGGACGCCACAGGTGTGG  
 ACAGGAATATTAAGAAAATCACTTTGCCAAGTATTGGTCGATTTTCGTCACTTTACCAATGAAACTTTGCT  
 AGATATTTTATTTATAACAGCCCCACCTACTGTGAGACAATTGTGGAAGAAAGTAGGAATGGAGATAAAC  
 CATCTGCATGCACTCTTTATGAGTCGGAACCCAGACTTCAAAGGAGGTGTCTCTGTTGCTGGTCACAGTT  
 TAGGTTCTTTAATATTGTTTGACATCCTGTCTAATCAAAAAGATTTGAATTTATCAAAGTGCCCTGGACC  
 TCTTGCTGTTGCTAATGGAGTTGTGAAGCAGCTACATTTTCAGGAAAAGCAGATGCCTGAAGAGCCAAAG  
 CTGACTTTGGATGAGTCGTATGACCTTGTGTTGAAAATAAAGAAGTCCTAACTTTGCAAGAAACTCTGG  
 AAGCACTTAGCCTCTCTGAATATTTTAGCACTTTTGAAAAGGAAAAGATTGATATGGAGTCCCTGCTTAT  
 GTGTACAGTTGATGACCTGAAGGAAATGGGGATACCCCTTGGACCCAGAAAGAAGATAGCTAACTTTGTA  
 GAACATAAAGCAGCCAACTGAAAAAGCAGCGTCAGAAAAGAAGGCAGTGGCGGCCACTTCTACAAAAG  
 GACAAGAGCAAAGTGCCCAAGACTAAAGACATGGCTTCCCTCCCTCAGAATCCAATGAGCCAAAGAG  
 GAAACTCCAGTTGGTGTCTGCGTGTCTTCTGTGTGTGAATTATGAATCTTTTGAAGTTGGCGCCGA  
 CAGGTTTCTGTTGCTTACAACCTATTAGATTTTGAACCAGAGATATTCTTTGCCTGGGGTCTCAAATTG  
 CTATGTTTCTCACTATTCGAGGAGTTGATAGGATAGATGAGAATTACAGCCTTCTACCTGTAAGGGTT  
 CTTCAATATTTATCATCCGCTTGATCCAGTGGCATATAGATTAGAACCTATGATTGTTCCAGATTTGGAC  
 CTAAGAGCTGTTCTCATTCCACATCACAAAGGCAGAAAAGACTTCAATTTAGAATTGAAAGAGAGTCTCT  
 CTCGTATGGGATCTGATTTGAAGCAGGGTTTTATTAGCTCTCTCAAAAGTCTTGGCAGACATTAATGA  
 GTTTGCCCGTGCTCATACGTCTTCAACCCAGTTGCAAGAAGAATTGGAGAAGGTGGCCAATCAGATCAAA  
 GAAGAAGAAGAAAAGCAAGTAGTTGAAGCAGAAAAGGTTGTTGAAAGTCCAGATTTTCCAAGGATGAGG  
 ACTACTTAGGAAAGGTTGGAATGTTAAATGGAGGCCGCCGAATTGACTACGTTCTCAAGAAAACCAAT  
 AGAGAGTTTTAATGAATACCTTTTCGCTCTTTCAGAGTCACTTATGCTATTGGGAATCTGAAGATACTGCT  
 CTGTTACTACTTAAAGAAATTTATCGAACAAATGAACATTAGTCCAGAACAGCCCCAGCAT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGAT AAGGTTTAA

**Protein Sequence:**

>RC209056 protein sequence  
 Red=Cloning site Green=Tags(s)

MAERKPNGGSGGASTSSSGTNLLFSSSATEFSFNVPFIPVTQASASPASLLLLPGEDSTDVGEEDSFLGQT  
 SIHTSAPQTFSYFSQVSSSDPFNGIGQSPLTTAATSVGQSGFPKPLTALPFTTGSQDVSNAFSPSISKA  
 QPGAPSSLMGINSYLPSPSSLPSPYFNGQPQIPQPGYNPYRHTPGSSRANPYIAPPQLQQCQTPGPP  
 AHPPSPGPPVQMYQMPGSLPPVPSSVQSPAQQQVPARPGAPSVQVPSFLLQNYEPVQPHWFYCKEVE  
 YKQLWMPFSVFDLNLLEEIYNSVQPDPESSVVLGTDGGRYDVLYDRIRKAAWEEEPAEVRRCTWFYKGD  
 TDSRFIPYTEEFSEKLEAEYKAVTTNQHRRLEFPSETIVMHNPKVIVQFQPSVSPDEWGTQDQQR  
 PRVVKRGIDDLDEIPDGEMPQVDHLVHVHIGPVCDLRFRSIECVDDFRVSLKLLRTHFKSLDDG  
 KYSRVEFLPVHWHSSLGGDATGVDRNIKITLPSIGRFRHTNETLLDILFYNSPTYCQTIVEKVGMEIN  
 HLHALFMSRNPDFKGGVSVAGHSLGSLILFDILSNQKDLNLSKCPGLAVANGVVKQLHFQEKQMPPEPK  
 LTLDESVDLVENKEVLTLETLEALSLSEYFSTFEKEKIDMESLLMCTVDDLKEMGIPLGPRKKIANFV  
 EHKAARKKAAASEKKAATSTKQEQSAQKTKDMASLPSESNEPKRKLPGVACVSSVCVNYESFEVAGG  
 QVSVAYNSLDFEPEIFFALGSPIAMFLTIRGVDRIDENYSLPTCKGFFNIYHPLDPVAYRLEPMIVPDL  
 LKAVLIPHHKGRKRLHLELKESSLRMGSDLKQGFISLKSAWQTLNEFARAHTSSTLQEELEKVANQIK  
 EEEEKQVVEAEKVVEPDFSKDEDYLGKVGMLNGGRRIDYVYLQEKPIESFNEYLFALQSHLCYWESEDTA  
 LLLLKEIYRTMNISPEQPQH

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:**

[https://cdn.origene.com/chromatograms/mk6204\\_d01.zip](https://cdn.origene.com/chromatograms/mk6204_d01.zip)

**Restriction Sites:**

Sgfl-MluI

**Cloning Scheme:**


**ACCN:** NM\_007190

**ORF Size:** 3000 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.

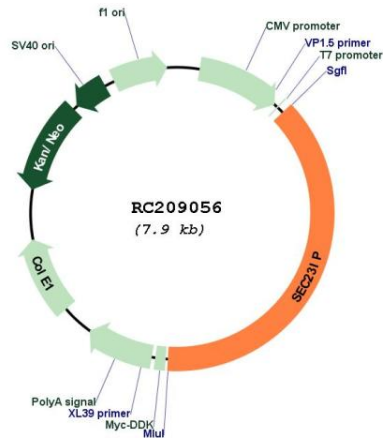
**RefSeq:** [NM\\_007190.4](#)

**RefSeq Size:** 7306 bp

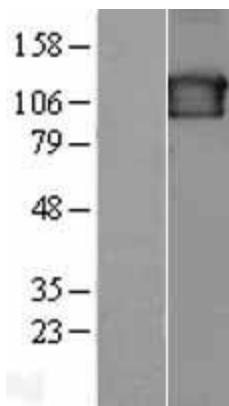
**RefSeq ORF:** 3003 bp  
**Locus ID:** 11196  
**UniProt ID:** [Q9Y6Y8](#)  
**Cytogenetics:** 10q26.11-q26.12  
**Domains:** SAM, DDHD  
**MW:** 111.1 kDa

**Gene Summary:** This gene encodes a member of the phosphatidic acid preferring-phospholipase A1 family. The encoded protein is localized to endoplasmic reticulum exit sites and plays a critical role in ER-Golgi transport as part of the multimeric coat protein II complex. An orthologous gene in frogs is required for normal neural crest cell development, suggesting that this gene may play a role in Waardenburg syndrome neural crest defects. Alternatively spliced transcript variants have been observed for this gene. [provided by RefSeq, Feb 2011]

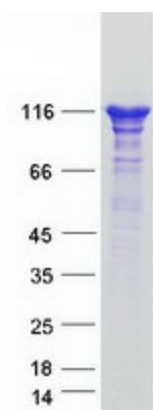
### Product images:



Circular map for RC209056



Western blot validation of overexpression lysate (Cat# [LY402101]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC209056 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified SEC23IP protein (Cat# [TP309056]). The protein was produced from HEK293T cells transfected with SEC23IP cDNA clone (Cat# RC209056) using MegaTran 2.0 (Cat# [TT210002]).