

## Product datasheet for **RC201577**

### Importin 13 (IPO13) (NM\_014652) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Importin 13 (IPO13) (NM_014652) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Importin 13
Synonyms:	IMP13; KAP13; LGL2; RANBP13
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide  
Sequence:**

>RC201577 ORF sequence  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGAGCGCGGGAGGAGCAGCCGGGGGCTGCAGGGGCTGGAGCAGCACCAGCCTTGGACTTCACTGTGG  
 AGAACGTGGAGAAGGCGCTGCACCAGCTCTACTATGATCCCAACATTGAGAATAAGAACCTGGCTCAGAA  
 GTGGCTGATGCAGGCCAGGTCTCCCCACAGCCCTGGCACTTCAGCTGGCAGCTACTGCAGCCCGACAAG  
 GTACCAGAGATCCAGTACTTTGGGGCCAGTGCTCTTACATCAAGATCTCTCGTACTGGAGTGACATCC  
 CCACTGACCAGTATGAAAGCCTAAAGGCACAGCTCTTACCCAGATCACCCGCTTTGCCAGTGGCTCCAA  
 GATTGTACTGACTCGGCTGTGCGTGGCACTGGCCTCACTGGCTCTCAGCATGATGCCTGATGCTTGGCCA  
 TGTGCTGTGGCAGATATGGTACGACTCTCCAGGCTGAGGACTCACCAGTGGATGGCAGGGCCGCTGCC  
 TAGCCCTGTTAGAGCTGTGACAGTGTGCCTGAGGAGTCCAGACCAGTCGCCTACCCAGTACCGCAA  
 AGGCCTGGTGGGACCAGCCTGGCGGTGGAATGTGGGGCTGTCTCCCGTGTGGAGCAGCTGCTACAG  
 CAGCCCAGCTCACCCAGCTGTGTGCGTCAGAAGGTGCTCAAGTGTTCCTCAGCTGGGTGCAGCTGGAGG  
 TGCCGCTGCAGGACTGTGAGGCGCTCATTCAAGGCTGCCTTTGCTGCTCTGCAGGACTCGGAGCTCTTCGA  
 CAGCAGTGTGGAGGCCATTGTGAATGCCATCTCACAGCCTGATGCCAGAGGTACGTGAACACACTCCTG  
 AAACCTATCCCGCTGGTGTGGGCTGCAGGAACAAGTGCAGGAGGAGTGCAGAATGGGGACATGGAGA  
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 CCTGTCAATGAGACCACCAGCTCCCTAACCTCACCTTCTGGTACACACTGCAGGATGATATTCTATCCT  
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 TCTGCACAAGGCCAGTTCCCTTCTGATGAGGAATATGGATTCTGGTCTCAGACGAGAAGGAGCAGTTT  
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 GCAACCTCTATGACAAGCTGGTGTGCTTCTCACCAGCTCAGAGGAGCCCTACTCCTGGCAGCACACAGA  
 GGCCCTCCTCTACGGTTCATCCATCGCAGAGACCATTGACGTCAACTATTCTGATGTGGTGCCTGGG  
 CTCATTGGCCTCATCCCACGGATCAGCATCAGCAACGTGCAGCTGGCAGACACTGTCATGTTACCATTG  
 GAGCTCTGTCTGAATGGCTGGCTGACCACCCCGTCATGATCAACAGTGTCTGCCCTTGGTACTGCATGC  
 CCTAGGCAATCCTGAGCTGTCTGTCTTCTGTGTCCACCCTCAAGAAGATCTGCCGAGAGTGAAGTAT  
 GACCTGCCTCCCTATGCTGCCAACATTGTGGCTGTGTCCAGGATGTGCTGATGAAACAGATCCACAAGA  
 CAAGCCAGTGCATGTGGCTGATGCAGGCCCTGGGCTTCCCTGCTGTGAGCTCTTCAAGTGGAGGAGATCCT  
 TAAGAACCTGCACTCGCTTATCTCACCCCTATATCCAGCAACTGGAGAAGCTGGCAGAGGAGATACCCAAT  
 CCCTCAAACAAGCTGGCCATTGTTACATCTTGGGGCTTCTCTCAAACCTCTTACCACACTGGACATCA  
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 GGTGGTGGTGTGCAGCAGGCTTCCAGCTTATCCAGAAGGTGCTGAGCAAAATGGTTGAATGATGCCAG  
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 TGCCACAGCTGTGTGAGATGCTGGGTGGATGTACAGCACCATCCCCAGGCCTTGTCTTGCCTCAC  
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 TGTGTTCCAGTGTGCTGTGCTGGCCCTCAAGTTCCTGAGGCACCTACTGTCAAGGCCTCCTGTGGCTTC  
 TTTACAGAGCTGCTGCCTCGGTGTGGGGAAGTAGAGTCTGTGGGAAAGGTGTTACAGGAAGACGGTCTGA  
 TGCTGCTCATAGCAGTGTGGAGGCCATTGGGGCCAGGCCTCCCGCAGCCTCATGGACTGCTTTGCCGA  
 TATCCTGTTCCGCTGAACAAGCACTGCTTCCAGCCTCCTGAGCATGTGGATCAAGGAGGCCCTGCAGCCA  
 CCTGGTTTCCCTCTGCCCGCTCAGCCCTGAACAGAAGGATACCTTCCAGCCAGCAGATCCTTCCGAGC  
 GAGTGAACAAGAGCGGGTGAAGGAGATGGTGAAGGAGTTCACACTGCTGTGCCGGGTCTCCATGGCAC  
 AGATTACACAGCTGACTAC

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >RC201577 protein sequence  
Red=Cloning site Green=Tags(s)

```
MERREEQPGAAGAGAALDFTVENVEKALHQLYYDPNIENKNLAQKWLMAQVSPQAWHFSWQLLQPK
VPEIQYFGASALHIKISRYWSDIPTDQYESLKAQLFTQITRFASGSKIVLTRLVALASLALSMMPDWP
CAVADMVRLFQAEDSPVDGQGRCLALLELLTVLPEEFQTSRLPQYRKGLVRTSLAVECGAVFPLLEQLLQ
QPSSPSCVRQKVLKCFSSWVQLEVLQDCEALIQAAFAALQDSELDSSVEAIVNAISQPDQRYVNTLL
KLIPLVVLGLQEQLRQAVQNGDMETSHGICRIAVALGENHSRALLDQVEHWQSFLALVNMIMFCTGIPGHY
PVNETTSSLTLTFWYTLQDDILSFEAEKQAVYQQVYRVPVYFQLVDVLLHKAQFPDSEYGFWSSDEKEQF
RIYRVDISDTLMYVYEMLGAELLSNLYDKLGRLLTSSEEPYSWQHEALLYGFQSAIETIDVNYSDVVP
LIGLIPRISISNVQLADTMFTIGALSEWLADHPVMINSVLPVHALGNPELSVSSVSTLKKICRECKY
DLPPYAANIVAVSQDVLKQIHKTSQCMWLMQALGFLLSALQVEEILKNLHSLISPYIQQLKLAEEIPN
PSNKLAIVHILGLLSNLFITLDISHHEDDHEGPELRKLPVPQGNPVVVVLQQVQLIQKVLKWLNDAAQ
VVEAVCAIFEKSVKTLDDFAPMVPQLCEMLGRMYSTIPQASALDLTRQLVHIFAHPEAHFPPIEALFLL
VTSVTLTLFQQGPRDHPDIVDSFMQLLAQALKRKPDFLFCERLDVKSQVCAVLALKFPEAPTVMKASCGF
FTELLPRCGEVESVGVVQEDGRMLLIAVLEAIGGQASRSLMDCFADILFALNKHCFSLLSMWIKEALQP
PGFPSARLSPEQKDTFSQQILRERVNKRVRKEMVKEFTLLCRGLHGTDYADY
```

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:** [https://cdn.origene.com/chromatograms/mk6141\\_d01.zip](https://cdn.origene.com/chromatograms/mk6141_d01.zip)

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



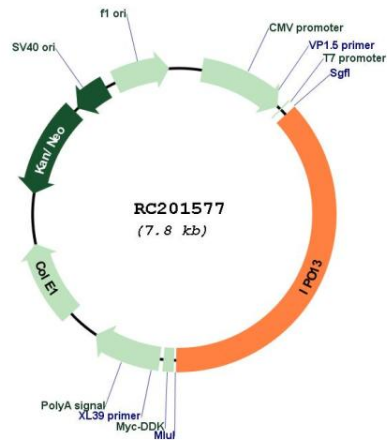
\* The last codon before the Stop codon of the ORF

**ACCN:** NM\_014652

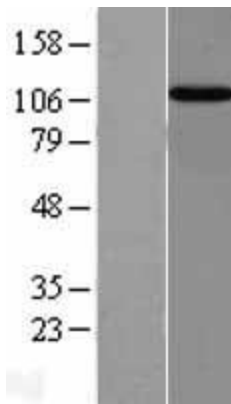
**ORF Size:** 2889 bp

<b>OTI Disclaimer:</b>	<p>Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at <a href="mailto:custsupport@origene.com">custsupport@origene.com</a> or by calling 301.340.3188 option 3 for pricing and delivery.</p> <p>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. <a href="#">More info</a></p>
<b>OTI Annotation:</b>	<p>This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.</p>
<b>Components:</b>	<p>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).</p>
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<p><a href="#">NM_014652.2</a>, <a href="#">NP_055467.2</a></p>
<b>RefSeq Size:</b>	<p>4041 bp</p>
<b>RefSeq ORF:</b>	<p>2892 bp</p>
<b>Locus ID:</b>	<p>9670</p>
<b>UniProt ID:</b>	<p><a href="#">O94829</a></p>
<b>Cytogenetics:</b>	<p>1p34.1</p>
<b>Domains:</b>	<p>IBN_NT</p>
<b>MW:</b>	<p>108.2 kDa</p>
<b>Gene Summary:</b>	<p>This gene encodes a member of the importin-beta family of nuclear transport proteins. The encoded protein mediates the import of specific cargo proteins from the cytoplasm to the nucleus and is dependent on the Ras-related nuclear protein-GTPase system. The encoded protein is also involved in nuclear export of the eukaryotic translation initiation factor 1A. [provided by RefSeq, Mar 2009]</p>

Product images:



Circular map for RC201577



Western blot validation of overexpression lysate (Cat# [LY402359]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC201577 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).