

Product datasheet for **RG200779**

MIIP (NM_021933) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	MIIP (NM_021933) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	MIIP
Synonyms:	IIP45
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG200779 representing NM_021933 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGTGGAGGCTGAGGAAGTGGCACAGCTGCGGCTGCTCAATCTGGAGCTCCTGAGGCAGCTGTGGGTGG
GGCAGGATGCTGTGCGGCGGTCACTGGCCAGGGCAGCCTCGGAGTCAAGCCTGGAATCCAGCAGCAGCTA
CAACTCAGAGACTCCATCGACCCAGAGACGTCTCAACTTCTTGAGCACCTCTGCCACGGGGCCGG
TCCTCCGTGTGGGGCCACCAGATGCCTGTCGAGGGACCTCCGTGATGTGGCCAGATCGGGGTGGCT
CTCTCCACCTGCCAATTGCCAGCACAGGAGTCCCTGGGCCACCGAGACCCACTCAGCACCTCGCT
GGGCACCTCAAGCCTGAGGGACCCAGAGCCCTCAGGGAGGCTGGGTGATCCAGGACCCAGGAGGCACAG
ACCTCGAGGTCCATCCTGGCTCAACAGAGCAAGCTGTCCAAGCCAGGGTACCTTCTCTGAGGAGTCTG
CAGTTCCTGAGAGGAGCTGGCGCCTCAGGCCATACCTGGGCTATGACTGGATTGCAGGGTCTCTGGACAC
CAGCTCTTCCATCACCAGCCAGCCTGAGGCCTTCTTCCAAGCTGCAGGAGTTTCGGGAAACCAACAAG
GAGGAGTGTATCTGCAGCCATCTGAACCCAGTTGCCAGGCCTGCGTGAGAGCAGTGGCAGCGGCTGG
AGGAAGACCATGAATGCGTGTACTGTTACCGTGTCAACCGGCCTGTTCCCGGTGCCTGTGGATCCCGG
TACCCCTGCCGCTGTGCAGGACACCGGAGACCAGCAGGGCCCTGGGACCTGGCGCAGCCAGCCGAC
GTCAGGGTGAGCATCCCCTGTGATCCTGGAGCCCCGACCCGTACCACATCCACCGGAAAGAGCT
TTGACGCCTCTGACACACTGGCCCTGCCCGGCACTGCCTGCTGGCTGGGACATTTTCTCCGAAAGTC
TGAGAAAAGCTCAGCCCCAGGAACCTGGACCTCTGGTCTCTGTCTCCGCTGAGGCCAGCACCAGAAG
CTGTCCGGCACCAGCAGCCCTTTTACCCGGCCTACCAATGCAGATGCTGCCCCGACCCGACCTGGT
CAGTGCCCGAGTCCCTCGGCCACGTCACCGCAGAAAGCCC

ACCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG200779 representing NM_021933
 Red=Cloning site Green=Tags(s)

MVEAEELAQLRLLNLELLRQLWVGQDAVRRSVARAAESSLESSSSYNSETPSTPETSSTSLSTSCPRGR
 SSVWGGPPDACRGDLRDVARSGVASLPPANCQHQESLGRPRPHSAPSLGTSSLRDPEPSGRLGDPGPQEAQ
 TSRSILAQQSKLSKPRVTFSEESAVPERSWRLRPYLGYDWIAGSLDTSSSITSQPEAFFSKLQEFRETNK
 EECICSHPEPQLPGLRESSGSGVEEDHECVYCYRVNRRLLFPVPVDPGTPCRLCRTPRDQQPGTLAQPAH
 VRVSIPLSILEPPHYHIHRRKSFSDASDTLALPRHCLLGWDIFPPKSEKSSAPRNLDLWSSVSAEAQHQK
 LSGTSSPFHPASPMQMLPPTPTWSVPQVPRPHVPRQKP

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_021933

ORF Size: 1164 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.

RefSeq: [NM_021933.2](#), [NP_068752.2](#)

RefSeq Size: 1588 bp

RefSeq ORF: 1167 bp

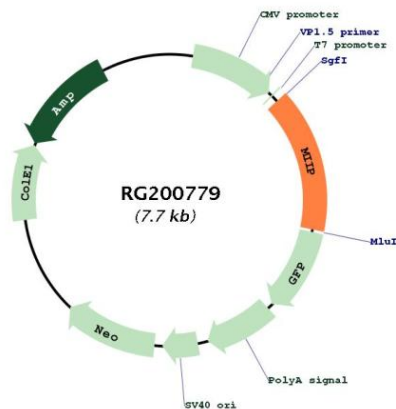
Locus ID: 60672

UniProt ID: [Q5JXC2](#)

Cytogenetics: 1p36.22

Gene Summary: This gene encodes a protein that interacts with the oncogene protein insulin-like growth factor binding protein 2 and may function as an inhibitor of cell migration and invasion. This protein also interacts with the cell division protein 20 and may be involved in regulating mitotic progression. This protein may function as a tumor suppressor by inhibiting the growth or certain cancers. [provided by RefSeq, Sep 2011]

Product images:



Circular map for RG200779