

Product datasheet for **RG215943**

Importin 7 (IPO7) (NM_006391) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Importin 7 (IPO7) (NM_006391) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Importin 7
Synonyms:	Imp7; RANBP7
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG215943 representing NM_006391 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGACCCCAACACCATTATCGAGGCCCTGCGGGGCACCATGGACCCAGCCCTGCGTGAGGCCGCGGAGC
GCCAGCTCAATGAAGCACACAAGTCTCTGAATTTGTCTCAACTGCTCCAGATTACTATGTCGGAACA
GCTGGATTTACCTGTGAGACAGGCAGGTGTTATCTATCTGAAAAATATGATAACACAGTATTGGCCTGAT
CGAAGAACAGCACCAGGGATATATCCCCTTATACTATCCAGAAGAAGATCGCCATTGTATTGAGAAA
ATATTGTAGAAGCCATTATCCATTCTCCTGAGCTCATCAGGTACAGCTTACTACATGCATTCATCAT
CATCAAACATGATTATCCAAGCCGCTGGACTGCCATTGTGGACAAAATTGGCTTTTATCTTCAGTCCGAT
AACAGTGCTTGTGGCTAGGAATCTTCTTTGCCTTTATCAGCTTGTGAAAAATTATGAGTAAAAAAAC
CAGAGGAGCGGAGTCCATTGGTAGCAGCAATGCAGCATTTTCTGCCAGTTCTAAAGGATCGTTTTATCCA
GCTTCTTCTGACCAGTCTGATCAGTCTGTCTCATCCAGAAACAGATATTCAAGATCTTCTATGCTCTT
GTTCAATATACTACCCTGGAAGTATAAACAACAGAACCTGACAGAATGGATAGAAATTTAAAGA
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GTTTCCAAGGATATAATGAATTTGCTGAAGTATTTCTGAAGGCATTTGCTGTTGGTGTCCAGCAAGTTT
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TTATATTAATCAAGGAGTTTCTCATGCTCTCACCTGGAAGAATCTGAAGCCCATATACAAGGCATTATC
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GATCAGAACCTTCAAACAGCCTTAGAGCTAACAAAGAGATGTCTGATTGATGATAGAGAAATGCCTGTGA
 AAGTGGAAAGCTGCCATTGCCCTTCAAGTATTGATCAGCAATCAAGAAAAAGCTAAAGAATATATCACACC
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 CAGCCCATGAATCCAAAATGATTGAGAAGCATGGAGGATACAAAATTCAGTGTCCAGTTGTGCCAAGTTC
 TTTCAATTTTGGAGGCCAGCACCAGGGATGAAT

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>RG215943 representing NM_006391
 Red=Cloning site Green=Tags(s)

MDPNTIIEALRGTMDPALREAAERQLNEAHKSLNFVSTLLQITMSEQLDLFVRQAGVIYILKNMITQYWPD
 RETAPGDISPYTIPEEDRHCIRENIVEAIIHSPELIRVQLTTCIHHI IKHDYPSRWTAIVDKIGFYLQSD
 NSACWLGILLCLYQLVKNEYKPKPEERSPLVAAMQHFLPVLKDRFIQLLSDQSDQSVLIQKQIFKIFYAL
 VQYTLPLELINQNLTEWIEILKTVVNRDVPNETLQVEEDDRPELPWWKCKKWLHILARLFERYGSPGN
 VSKEYNEFAEVFLKAFVGVQVLLKVLQYKEKQYMAPRVLQQLNYINQGVSHALTWKNLPHIQGII
 QDVIFPLMCYTDDEELWQEDPYEYIRMKFDVFEFISPTTAAQTLLFTACSKRKEVLQKTMGFCYQILT
 EPNADPRKKDGLHMIIGSLAEILLKKKIYKQMEYMLQNHVPLFSSSELGYMRARACWVLFHYFCEVKFKS
 DQNLQTALELTRRCLIDDREMPVKEAAIALQVLSNQEKAKEYITPFIRPVMQALLHI IRETENDDLTN
 VIQKMICEYSEEVTPIAVEMTQHLAMTFNQVIQTGPDEEGSDDKAVTAMGILNTIDTLLSVVEDHKEITQ
 QLEGICLQVIGTVLQQHVLEFYEEIFSLAHSLTCCQVSPQMWQLLPLVFEVFPQDGFDFYFTDMMPLLHNY
 VTVDTDLLSDTKYLEMIYSMCKKVLTVGAGEDAECHAAKLLEVIILQCKGRGIDQCIPLFVEAALERLT
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 LCALIDMEQIPQVLNQVSGQILPAFILLFNLKRAYACHAEHENDSDDDDAEEDDETEELGSEDDIDE
 DGQEYLEILAKQAGEDGDDEDWEEDDAEETALEGYSTIIDDEDNPVDEYQIFKAIFQTIQNRNPVWYQAL
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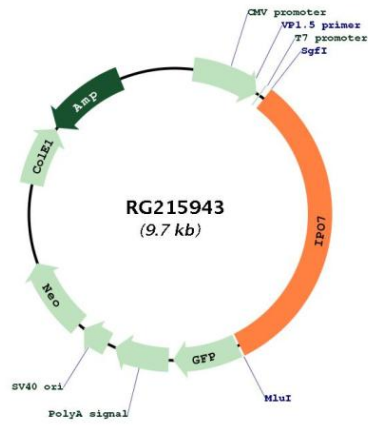
TRTRPLE – GFP Tag – V

Restriction Sites:

SgfI-MluI

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_006391.2
RefSeq Size:	3557 bp
RefSeq ORF:	3117 bp
Locus ID:	10527
UniProt ID:	O95373
Cytogenetics:	11p15.4
Domains:	IBN_NT
Protein Families:	Druggable Genome
Gene Summary:	<p>The importin-alpha/beta complex and the GTPase Ran mediate nuclear import of proteins with a classical nuclear localization signal. The protein encoded by this gene is a member of a class of approximately 20 potential Ran targets that share a sequence motif related to the Ran-binding site of importin-beta. Similar to importin-beta, this protein prevents the activation of Ran's GTPase by RanGAP1 and inhibits nucleotide exchange on RanGTP, and also binds directly to nuclear pore complexes where it competes for binding sites with importin-beta and transportin. This protein has a Ran-dependent transport cycle and it can cross the nuclear envelope rapidly and in both directions. At least four importin beta-like transport receptors, namely importin beta itself, transportin, RanBP5 and RanBP7, directly bind and import ribosomal proteins. [provided by RefSeq, Jul 2008]</p>

Product images:



Circular map for RG215943