

Product datasheet for **RG209420**

Exportin 5 (XPO5) (NM_020750) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Exportin 5 (XPO5) (NM_020750) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	XPO5
Synonyms:	exp5
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG209420 representing NM_020750 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCGATGGATCAAGTAAACGCGCTGTGCGAGCAGCTGGTAAAAGCGGTGACGGTCATGATGGACCCCA
ACTCCACCCAGCGCTACCGGCTGGAAGCCCTCAAGTTTTGTGAGGAGTTAAAGAAAAGTGCCTATCTG
TGTCCTTGTGGCTTGGCTGAGAAAACACAAGTTGCCATCGTCAGACATTTTGGCCTTCAGATC
CTGGAACACGTTGTCAAGTTTCGGTGAACGGCATGTCTCGATTGGAGAAGGTGTATCTGAAGAACAGTG
TCATGGAGCTGATTGCAATGGAACATTGAACATTTTGAAGAGGAGAACCATATTAAGATGCTCTGTC
TCGAATTGTAGTGAAAATGATCAAGCGAGAGTGGCCACAGCATTGGCCTGACATGCTAATAGAATTGGAC
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AGCCTCTGTTCCGCTTTCTCACCTTCATTCGTGCAGTGGGAAGCCATGACTCTTTTTTTGGAAAGTGTTA
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CTGGACAATGATGGGGTGGCCTGGCCACCATCTTTGAACCC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG209420 representing NM_020750
 Red=Cloning site Green=Tags(s)

MAMDQVNALCEQLVKAVTVMMDPNSTQRYRLEALKFCEEKFCPCVPCGLRLAEKTQVAIVRHFGQLI
 LEHVVKFRWNGMSRLEKVVYKNSVMELIANGTLNILEENHIKDALSRIIVVEMIKREWQHWPDMLELD
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 VDAFIAVYVGTQKSCDPCGLNRARMSFCVYSILGVVVRTCWPTDLEAKAGGFVVGYSNGNPIFRN
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 FKTVLERMQRFFSTLYENCFHILGKAGPSMQQDFYTVEDLATQLLSSAFVNLNIPDYRLRPMLRVF
 VKPLVLFPCPEHYEALVSPILGLPFTYLHMRLSQKWQVINQRSLLCGEAEADENPESQEMLEEQL
 VRMLTREVMDLITVCCVSKKGADHSSAPPADGDEEMATEVTPSAMAELDLGKCLMKHEDVCTALLI
 TAFNSLAWKDTLSCQRTTSQLCWPLLKQVLSGTLADAVTWLFTSVLKGLQMHGQHDGCMASL
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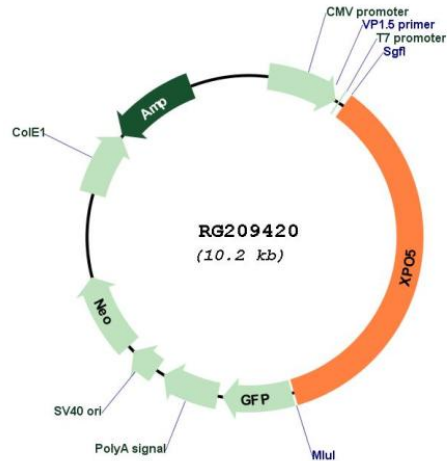
TRTRPLE - GFP Tag - V

Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:


ACCN: NM_020750

ORF Size: 3612 bp

OTI Disclaimer: 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 custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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_020750.3](#)

RefSeq Size: 5378 bp

RefSeq ORF: 3615 bp

Locus ID: 57510

UniProt ID: [Q9HAV4](#)

Cytogenetics: 6p21.1

Protein Families: Druggable Genome

Gene Summary: This gene encodes a member of the karyopherin family that is required for the transport of small RNAs and double-stranded RNA-binding proteins from the nucleus to the cytoplasm. The encoded protein translocates cargo through the nuclear pore complex in a RanGTP-dependent process. [provided by RefSeq, Aug 2011]