

Product datasheet for **RG208659**

MKLP1 (KIF23) (NM_004856) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	MKLP1 (KIF23) (NM_004856) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	MKLP1
Synonyms:	CHO1; KNSL5; MKLP-1; MKLP1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide
Sequence:**

>RG208659 representing NM_004856
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGC**

ATGAAGTCAGCGAGAGCTAAGACACCCCGAAACCTACCGTGAAAAAGGGTCCCAAACGAACCTTAAAG
 ACCCAGTTGGGGTATACTGTAGGGTGCGCCCACTGGGCTTTCCTGATCAAGAGTGTGCATAGAAGTGAT
 CAATAATACAACGTTCAGCTTCATACTCCTGAGGGCTACAGACTCAACCGAAATGGAGACTATAAGGAG
 ACTCAGTATTCATTTAAACAAGTATTTGGCACTCACACCACCCAGAAGGAACCTTTGATGTTGTGGCTA
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 AAAAATCACACAATGACTGGTCTCCAGGGGAAGGAGGGCTGCTTCTCGTTGTTTGGACATGATCTTT
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 CTAATTAAGGGTGATATTTATAAAACAAGGGTGGTGGACAATCTGTTTCAGTTTACTGATTTGAGACTT
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 TGCAGAGTCTGAATGGACCGATGTAGAACAAGGTGTTCTGTGGCTGTGGAGATGAGAGCAGGATCCAG
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ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

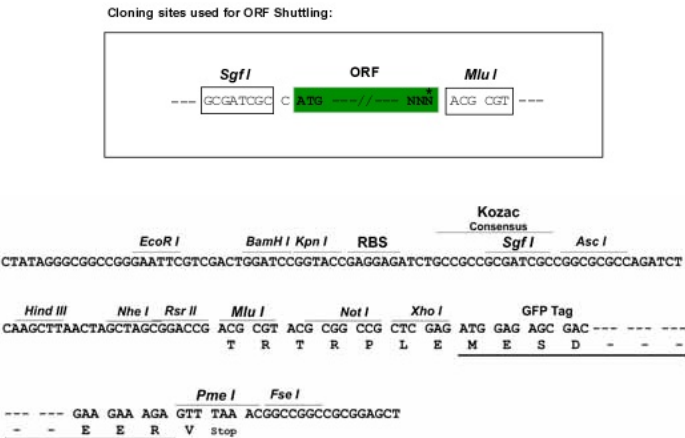
Protein Sequence: >RG208659 representing NM_004856
 Red=Cloning site Green=Tags(s)

MKSARAKTPRKPTVKKGSQTNLKDPVGVYCRVRPLGFPDQECCIEVINNTTVQLHTPEGYRLNRNGDYKE
 TQYSFKQVFGTHTTQKELFDVVANPLVNDLIHGKNGLLFTYGVGTSGKTHMTGSPGEGGLLPRCLDMIF
 NSIGSFQAKRYVFKSNDNRNSMDIQCEVDALLERQKREAMPNPKTSSSKRQVDPEFADMITVQEFCKAEEV
 DEDSVYGVFVSYIEIYNNYIYDLLEEVFPDPIKPKPPQSKLLREDKNHNMYVAGCTEVEVKSTEEAFEV
 WRGQKKRRRIANTHLNRESSRSHSVFNIKLVQAPLDADGDNVLQEKEQITISQLSLVDLAGSERTNRTRAE
 GNRLREAGNINQSLMTLRTCMDVLRNQMYGTNKMVPYRDSKLTFLFKNYFDGEGKVRMIVCVNPKAEDY
 EENLQVMRFAEVTQEVEVARPVDKAICGLTPGRRYRNQPRGPVGNELVTDVVLQSFPLPSCEILDIND
 EQTLPRLEALEKRHNLQMMIDEFNKQSNAFKALLQEFDNAVL SKENHMQGKLEKEKMISGQKLEIER
 LEKKNKTLEYKIEILEKTTTIYEEDKRNLLQEELETONQKLQRQFSDKRRLEARLQGMVTETTMKEKECE
 RRVAQKQLEMQNKLVWKDEKLKQLKAIVTEPKTEKPERPSRERDREKVTQRSVSPSPVPLLFQPDQNA
 PIRLRHRRSRASGDRWVDHQPASNMQTETVMQPHVPHAITVSVANEKALAKCEKYM LTHQELASDGEIETK
 LIKGDYKTRGGGQSVQFTDIETLKQESPNGSRKRRSSTVAPAQPDGAESEWTDVETRCVAVEMRAGSQ
 LGPGYQHHAQPKRKKP

TRTRPLE – GFP Tag – V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN:	NM_004856
ORF Size:	2568 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_004856.7](#)

RefSeq Size: 3385 bp

RefSeq ORF: 2571 bp

Locus ID: 9493

UniProt ID: [Q02241](#)

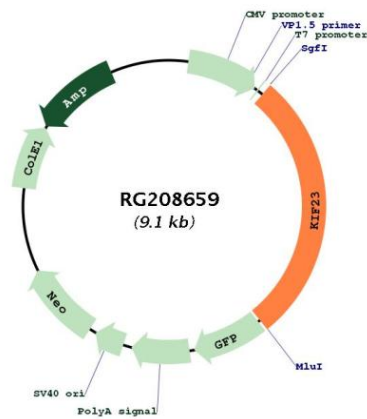
Cytogenetics: 15q23

Domains: kinesin

Protein Families: Druggable Genome

Gene Summary: The protein encoded by this gene is a member of kinesin-like protein family. This family includes microtubule-dependent molecular motors that transport organelles within cells and move chromosomes during cell division. This protein has been shown to cross-bridge antiparallel microtubules and drive microtubule movement in vitro. Alternate splicing of this gene results in multiple transcript variants. [provided by RefSeq, Jul 2013]

Product images:



Circular map for RG208659