

Product datasheet for **RC217683**

MKLP1 (KIF23) (NM_138555) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	Myc-DDK
Symbol:	MKLP1
Synonyms:	CHO1; KNSL5; MKLP-1; MKLP1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



ORF Nucleotide Sequence: >RC217683 representing NM_138555
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGAAGTCAGCGAGAGCTAAGACACCCCGGAAACCTACCGTGAAAAAGGGTCCCAAACGAACCTTAAAG
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Protein Sequence:

>RC217683 representing NM_138555

Red=Cloning site Green=Tags(s)

MKSARAKTPRKPTVKKGSQTNLKDPVGVYCRVRPLGFPDQECCEIVINNTTVQLHTPEGYRLNRRNGDYKE
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NSIGSFQAKRYVFKSNDNRSMIDIQCEVDALLERQKREAMPNPKTSSSKRQVDPEFADMITVQEFCKAEEV
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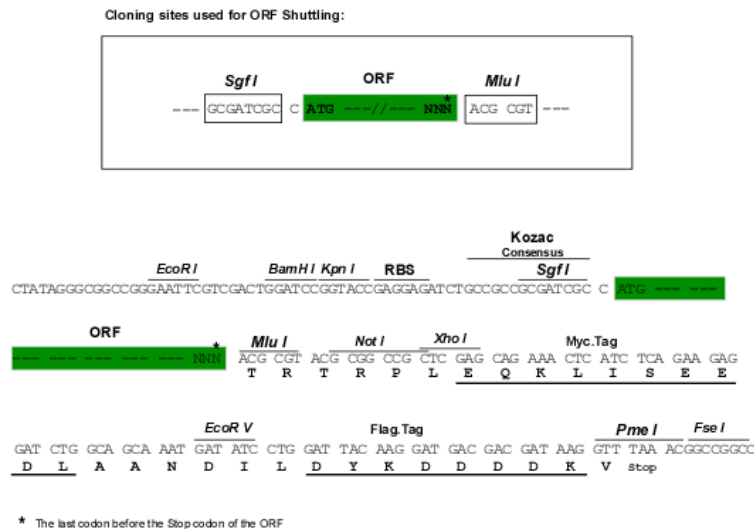
Chromatograms:

https://cdn.origene.com/chromatograms/mk8115_g05.zip

Restriction Sites:

Sgfl-MluI

Cloning Scheme:

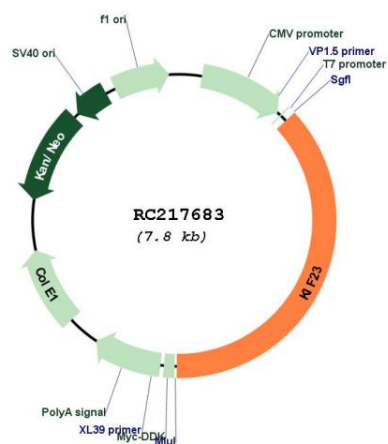


ACCN:

NM_138555

ORF Size:	2880 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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	NM_138555.4
RefSeq Size:	3697 bp
RefSeq ORF:	2883 bp
Locus ID:	9493
UniProt ID:	Q02241
Cytogenetics:	15q23
Domains:	kinesin
Protein Families:	Druggable Genome
MW:	110.1 kDa
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 RC217683