

Product datasheet for RC226296

MOV10 (NM_001130079) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	MOV10 (NM_001130079) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	MOV10
Synonyms:	fSAP113; gb110
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC226296 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCCAGTAAGTTCAGCTGCCGGCAGCTCCGGGAGGCGGCCAGTGTTTCGAGAGTTCCTGGTCGTTCC
GGGACTGGACATGGAGACAGATCGCGAGCGGCTGCGGACCATTATAACCGCGACTTCAAGATCAGCTT
TGGGACCCCGCCCTGGCTTCTCCTCCATGCTGTATGGAATGAAGATTGCAAATCTGGCCTACGTCACC
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TCTTCATGGGAAACATGGTGTGGATGTGGAAGTCCAGGGGCCCATGAAGCCCGAGATGGGCAGCTCCTT
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GCTGCTGTGGCCATGCTTTTCTGTGGCACCTCGGGAGTCCCGCTGCTGCCCTCAGATGTGAAACT



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AAGCTGTACGACCGGAGTCTGGAGTCAAACCCAGAGCAGCTGCAGGCCATGAGGCACATTGTTACGGGCA
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ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC226296 protein sequence
 Red=Cloning site Green=Tags(s)

MPSKFSRQLREAGQCFESFLVVRGLDMETDRERLRTIYNRDFKISFGTPAPGFSMLYGMKIANLAYVT
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 IRLDLNRKEVLTLLRNGGTQSVTLTHLFPLCRTPQFAFYNEDQELPCPLGPGECYELHVHCKTSFVGYF
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 SLLERLLTYNSLYKKGPDGYPQFITKLLRNYSHTPTILDIPNQLYYEGELQACADVDRERFCRWAGLP
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 RYCITKLDRELRLDDIKDLKVGVSVEEFQGGERSVILISTVRSQSFVQLDLDFNLGFLKNPKRFNVAVT
 RAKALLIIVGNPLLLGHDPDWKVFLEFKENGGYTGCPFAKLDLQQGNLLQGLSKLSPSTSGPHSHDY
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Chromatograms:

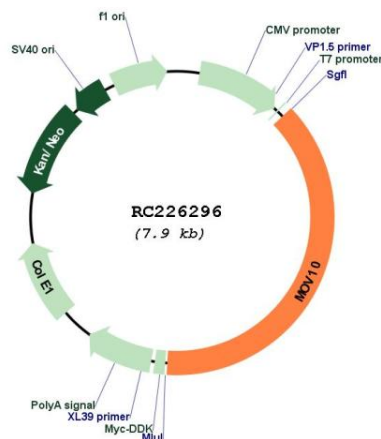
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Restriction Sites:

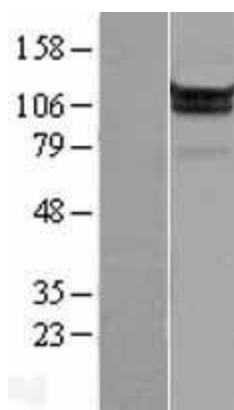
Sgfl-MluI

Locus ID:	4343
UniProt ID:	Q9HCE1
Cytogenetics:	1p13.2
MW:	113.7 kDa
Gene Summary:	<p>5' to 3' RNA helicase contributing to UPF1 mRNA target degradation by translocation along 3' UTRs (PubMed:24726324). Required for microRNA (miRNA)-mediated gene silencing by the RNA-induced silencing complex (RISC). Required for both miRNA-mediated translational repression and miRNA-mediated cleavage of complementary mRNAs by RISC (PubMed:16289642, PubMed:17507929, PubMed:22791714). In cooperation with FMR1, regulates miRNA-mediated translational repression by AGO2 (PubMed:25464849). Restricts retrotransposition of long interspersed element-1 (LINE-1) in cooperation with TUT4 and TUT7 counteracting the RNA chaperone activity of L1RE1 (PubMed:30122351, PubMed:23093941). Facilitates LINE-1 uridylation by TUT4 and TUT7 (PubMed:30122351). Required for embryonic viability and for normal central nervous system development and function. Plays two critical roles in early brain development: suppresses retroelements in the nucleus by directly inhibiting cDNA synthesis, while regulates cytoskeletal mRNAs to influence neurite outgrowth in the cytosol (By similarity). May function as a messenger ribonucleoprotein (mRNP) clearance factor (PubMed:24726324).[UniProtKB/Swiss-Prot Function]</p>

Product images:



Circular map for RC226296



Western blot validation of overexpression lysate (Cat# [LY427147]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC226296 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).