

Product datasheet for **MR229136**

Syne4 (NM_001290565) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Syne4 (NM_001290565) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Syne4
Synonyms:	0610012K07Rik; AI428936; KASH4; Nesp4
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>MR229136 representing NM_001290565 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGGCCCTGGTCCACCTCTTGGCCGTGAATCCCGCCAGAGCCTGTGAATTGTCCCTGGCAGCTCCTA
GAGAGCTGGATGTTGTCGGAGGGACCATCTGCCCTGCACCTGAGGAAGAGACAAGCAGGCCAGAGCAGGT
CCAGGCCCTCCTTGGCCCTGCCTGAGCATTGCATGGGTGAAGTGAAGAGCACTGAGTCTGCCACCAGCCCC
TCAAGACTCCCCCTGGCCTCTTCCCATGAGCATCAAGACGGGGCAAGCCCTGTGAGCACTCTGACTCTG
GTTTGAAGTACTAGAAGCTGAACAGGACAGTCTACATCTTTGTCTGTTGAGGTTGAAGTCCGGCTGCA
GGACCTGGAACGAGGCCCTTGGGTCTTGGACGCTGGCCACAACAGGATTGTCCAGATGCAGGCCCTGCAG
GCAGAGCTACGAGGGCCGCTGAGCGCTGGATGCATTGCTTGCATTTGGTGAGGGCCTGGCAGAGAGGA
GTGAGCCCAGGGCCTGGGCATCCCTGGAGCAGGTCTGAGGGCCCTTGAACCCACCGAGACACCATCTT
CCAACGGCTCTGGCAGCTGCAGGCCAGTTGATCAGCTATAGCCTGGACCTGCTCTCCTTGGGGCTTGGC
CACCGAAACATTTAGCGGCTCACCATCGAAGGGCGCTCCGGAAGCCTCAGGACAGGAAGAGGCAAGTAT
CCCCAGTCTGCCTGATGCAATGCTGGAAGTGGATCGCGGGTCCCAGCTCCTGCATCCAAGCGCCCTT
GACCTCTTCTTCTCCTTCTCCTCCTTCTGTTGGTGGCAGCTGTTGCTGCCCTTGTGCGGGGTC
TCTGCTGTTCTCATGCCGGCTGGCTAGGACGCCCTACCTGGTCTCAGTTATGTCAATGGTCTCCCTC
CAATC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR229136 representing NM_001290565
 Red=Cloning site Green=Tags(s)

MALVPPLGREFPPEPVNCPAAPRELDVVGITICPAPEEETS RPEQVQASLGLPEHCMGELKSTESATSP
 SRLPLASSHEHQDGGKPCHESDSGLEVLAEQDSLHLCLLRLNFRLQDLERGLGSWTLAHNRIVQMQLQ
 AELRGA AERVDALLAFGEGLAERSEPRAWASLEQVLRALGTHRDTIFQRLWQLQAQLISYSLDLLSLGLG
 HRKHLAAHHRRRLRKPQDRKRQVSPSLPDAMLEVD RGV PAPASKRPLTLFFLLL FLLL VGAT LLLLPLSGV
 SCCSHARLARTPYLVLSYVNGLPPI

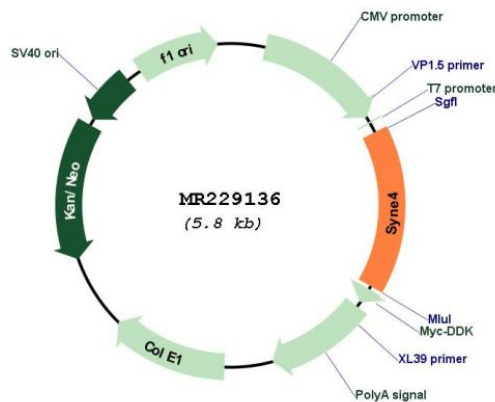
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001290565

ORF Size: 915 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:	<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_001290565.1 , NP_001277494.1
RefSeq Size:	1105 bp
RefSeq ORF:	918 bp
Locus ID:	233066
Cytogenetics:	7 B1
MW:	34 kDa
Gene Summary:	As a component of the LINC (Linker of Nucleoskeleton and Cytoskeleton) complex, involved in the connection between the nuclear lamina and the cytoskeleton. The nucleocytoplasmic interactions established by the LINC complex play an important role in the transmission of mechanical forces across the nuclear envelope and in nuclear movement and positioning (By similarity). Behaves as a kinesin cargo, providing a functional binding site for kinesin-1 at the nuclear envelope. Hence may contribute to the establishment of secretory epithelial morphology, by promoting kinesin-dependent apical migration of the centrosome and Golgi apparatus and basal localization of the nucleus.[UniProtKB/Swiss-Prot Function]