

Product datasheet for **MC226925**

Syne4 (NM_001290565) Mouse Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Syne4 (NM_001290565) Mouse Untagged Clone
Tag: Tag Free
Symbol: Syne4
Synonyms: 0610012K07Rik; AI428936; KASH4; Nesp4
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
Fully Sequenced ORF: >MC226925 representing NM_001290565
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**GCGATCGCC**

ATGGCCCTGGTCCACCTCTTGGCCGTGAATCCCGCCAGAGCCTGTGAATTGTCCCTGGCAGCTCCTA
GAGAGCTGGATGTTGTCGGAGGGACCATCTGCCCTGCACCTGAGGAAGAGACAAGCAGGCCAGAGCAGGT
CCAGGCCCTCCTTGGCCCTGCCTGAGCATTGCATGGGTGAAGTGAAGAGCACTGAGTCTGCCACCAGCCCC
TCAAGACTCCCCCTGGCCTCTTCCCATGAGCATCAAGACGGGGCAAGCCCTGTGAGCACTCTGACTCTG
GTTTGAAGTACTAGAAGCTGAACAGGACAGTCTACATCTTTGTCTGTTGAGGTTGAAGTCCGGCTGCA
GGACCTGGAACGAGGCCCTTGGTCTTGGACGCTGGCCACAACAGGATTGTCCAGATGCAGGCCCTGCAG
GCAGAGCTACGAGGGCCGCTGAGCGCGTGGATGCATTGCTTGCATTTGGTGAGGGCCTGGCAGAGAGGA
GTGAGCCAGGGCCTGGGCATCCCTGGAGCAGGTCCTGAGGGCCCTTGAACCCACCGAGACACCATCTT
CCAACGGCTCTGGCAGCTGCAGGCCAGTTGATCAGCTATAGCCTGGACCTGCTCTCCTTGGGGCTTGGC
CACCGAAACATTTAGCGGCTCACCATCGAAGGCGGCTCCGGAAGCCTCAGGACAGGAAGAGGCAAGTAT
CCCCAGTCTGCCTGATGCAATGCTGGAAGTGGATCGCGGGTCCAGCTCCTGCATCCAAGCGGCCCT
GACCTCTTCTTCTCCTTCTCCTCCTTCTGGTGGGTGCCACGCTGTTGCTGCCCTTGTGGGGGTC
TCTGCTGTTCTCATGCCCGCTGGCTAGGACGCCCTACCTGGTCTCAGTTATGTCAATGGTCTCCCTC
CAATCTGA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI
ACCN: NM_001290565
Insert Size: 918 bp



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OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
OTI Annotation:	Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.
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
Gene Summary:	<p>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]</p> <p>Transcript Variant: This variant (2) lacks an alternate in-frame exon compared to variant 1. The resulting isoform (2) has the same N- and C-termini but is shorter compared to isoform 1.</p> <p>Sequence Note: The RefSeq transcript and protein were derived from genomic sequence to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on alignments.</p>