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Product datasheet for RC237235

C19orf46 (SYNE4) (NM_001297735) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	C19orf46 (SYNE4) (NM_001297735) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	SYNE4
Synonyms:	C19orf46; DFNB76; KASH4; Nesp4
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>RC237235 representing NM_001297735 Red=Cloning site Blue=ORF Green=Tags(s) TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC GCCGCGATCGCC ATGGCCCTGTCCCTGCCTCTGGGCCCTAGACTTGGCTCAGAGCCCCTCAACCACCCACCGGGAGCACCTA GAGAGGCGGACATTGTTGGATGCACCGTCTGCCCCGCGTCCGGAGAGGAGAGCACGAGCCCAGAGCAGGC CCAGACCCTGGGACAGGACTCCTTGGGCCCTCCTGAGCACTTCCAGGGTGGGCCAAGGGGCAATGAGCCT GCCGCTCACCCCCCGAGATGGTCAACACCCTCTTCCTACGAGGACCCAGCTGGGGGCAAACACTGTGAGG TGTTCGAGGAGGCCAACACGCTGGACCAGGACTTGGAGGTCGAGGGAGACTCGGACTGGCCAGGACCTGG TGGGGTCTGGGGGCCCTGGGCACCCAGTAGCCTCCCCACTTCCACAGAGTTGGAGTGGGATCCGGCGGGG GACATTGGGGGCCTTGGGCCCTTGGGACAAAAGACAGCCCGGACACTAGGAGTGCCCTGTGAGCTGTGTG GCCAGAGGGGGCCCCAGGGCAGGGGACAAGGCCTTGAGGAAGCAGACACCTCTCACTCCCGACAGGACAT GCTGGAGTCTGGCCTCGGCCACCAGAAACGCTTAGCACGTCACCAAAGACACTCCCTGCTCCGGAAGCCT CAGGACAAGAAGAGGCAAGCATCTCCTCATCTCCAGGATGTGAGGCTGGAGGGGAATCCAGGGGCCCCCG ATCCTGCATCCAGGCAGCCTCTGACCTTCCTCCTTATCCTCTTCCTCCTCTTCCTCCTCCTGGTGGGTGC CATGTTTCTCCTGCCCGCGTCAGGAGGCCCCTGCTGCTCTCATGCCCGAATACCCAGGACACCCTACCTG GTGCTCAGCTATGTCAATGGTCTTCCCCCAGTC ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT ACAAGGATGACGACGATAAGGTTTAA

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Protein Sequence:

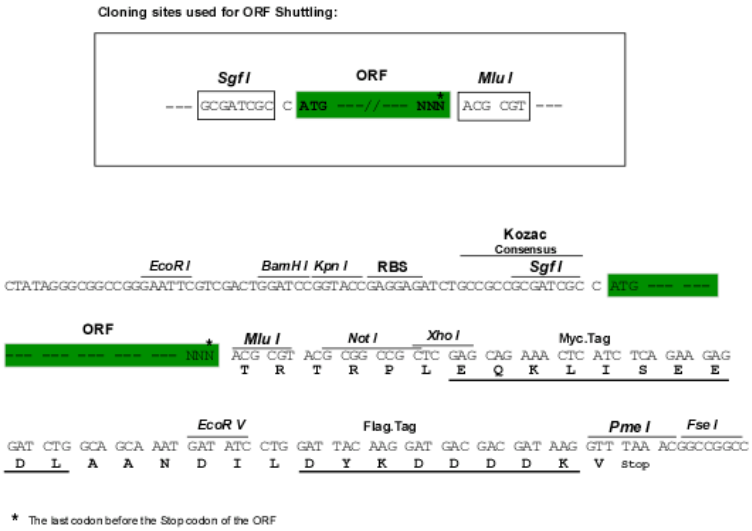
>RC237235 representing NM_001297735
Red=Cloning site Green=Tags(s)

MALSLPLGPRLGSEPLNHPPGAPREADIVGCTVCPASGEESTSPEQAQTLGQDSLGPPEHFQGGPRGNEP
AAHPPRWSTPSSYEDPAGGKHCEVFEEANTLDQDLEVEGDSDWPGPGGVWGPWAPSSLPTSTELEWDPAG
DIGGLGPLGQKTARTLGVPCELCGQRGPQGRGQGLEEADTSHSRQDMLESGLGHQKRLARHQRHSLLRKP
QDKKRQASPHLQDVRLEGNPGAPDPASRQPLTFLLILFLLFLLLVGAMFLLPASGGPCCSHARIPRTPYL
VLSYVNGLPPV

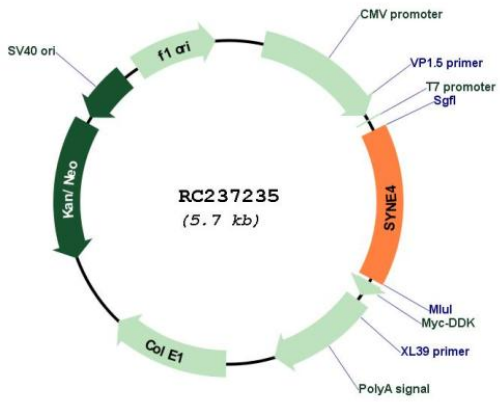
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001297735

ORF Size: 873 bp

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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_001297735.3
RefSeq Size:	1035 bp
RefSeq ORF:	876 bp
Locus ID:	163183
UniProt ID:	Q8N205
Cytogenetics:	19q13.12
Protein Families:	Transmembrane
MW:	31.4 kDa
Gene Summary:	This gene is a member of the nesprin family of genes, that encode KASH (Klarsicht, Anc-1, Syne Homology) domain-containing proteins. In addition to the KASH domain, this protein also contains a coiled-coil and leucine zipper region, a spectrin repeat, and a kinesin-1 binding region. This protein localizes to the outer nuclear membrane, and is part of the linker of nucleoskeleton and cytoskeleton (LINC) complex in the nuclear envelope. LINC complexes are formed by SUN (Sad1, UNC-84)-KASH pairs, and are thought to mechanically couple nuclear components to the cytoskeleton. Mutations in this gene have been associated with progressive high-frequency hearing loss. The absence of this protein in mice also caused hearing loss, and changes in hair cell morphology in the ears. Alternative splicing results in multiple transcript variants encoding different isoforms. [provided by RefSeq, Aug 2015]

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