

Product datasheet for **RG237235**

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:	TurboGFP
Symbol:	C19orf46
Synonyms:	C19orf46; DFNB76; KASH4; Nesp4
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG237235 representing NM_001297735. Blue=ORF Red=Cloning site Green=Tag(s)

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GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCCGGATCGCC
ATGGCCCTGTCCCTGCCTCTGGGCCCTAGACTTGGCTCAGAGCCCTCAACCACCCACGGGAGCACCT
AGAGAGGCGGACATTGTTGGATGCACCGTCTGCCCGCGTCCGGAGAGGAGAGCACGAGCCAGAGCAG
GCCAGACCCCTGGGACAGGACTCCTTGGGCCCTCTGAGCACTCCAGGGTGGCCAAGGGGCAATGAG
CCTGCCGCTACCCCCGAGATGGTCAACACCCTTTCTACGAGGACCCAGCTGGGGGCAAACTGT
GAGGTGTTGAGGAGGCCAACACGCTGGACCAGGACTTGGAGTTCGAGGGAGACTCGGACTGGCCAGGA
CCTGGTGGGTCTGGGGCCCTGGGCACCCAGTAGCCTCCCCTCCACAGAGTTGGAGTGGGATCCG
CGGGGGACATTGGGGCCCTGGGCCCTTGGGACAAAAGACAGCCCGGACTAGGAGTGCCTGTGAG
CTGTGTGGCCAGAGGGGGCCCCAGGGCAGGGGACAAGGCCTTGAGGAAGCAGACCTCTCACTCCGA
CAGGACATGCTGGAGTCTGGCCTCGGCCACCAGAAACGCTTAGCACGTCACCAAAGACACTCCCTGCTC
CGGAAGCCTCAGGACAAGAAGAGGCAAGCATCTCCTCATCTCCAGGATGTGAGGCTGGAGGGGAATCCA
GGGGCCCCGATCCTGCATCCAGGCAGCCTCTGACCTTCTCCTTATCCTTCTCCTCTTCTCCTCCTC
CTGGTGGGTGCCATGTTTCTCCTGCCCGCTCAGGAGGCCCTGCTGCTCATGCCGAATACCCAGG
ACACCTACCTGGTGCTCAGCTATGTCAATGGTCTTCCCCAGTC
ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAAAC
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Protein Sequence: >Peptide sequence encoded by RG237235
 Blue=ORF Red=Cloning site Green=Tag(s)

MALSLPLGPRLGSEPLNHPPGAPREADIVGCTVCPASGEEESTSPEQAQTLGQDSLGPPEHFQGGPRGNE
 PAAHPPRWSTPSSYEDPAGGKHCVEFEEANTLDQDLEVEGSDWPGGVWGPWAPSSLPTSTLEWDP
 AGDIGGLGPLGQKTARTLGVPCELCGQRGPQGRGQGLEEADTSHSRQDMLSEGLGHQKRLARHQHSL
 RKPQDKKRQASPHLQDVRLEGNPGAPDPASRQPLTFLLLILFLLFLLLVGAMFLLPASGGPCCSHARIPR
 TPYLVLSYVNGLPPV
 TRTRPLEMESDESGLPAMEIECRITGTLNGVEFELVGGGEGTPEQGRMTNKMKSTKGALTFSPYLLSHV
 MGYGFYHFGTYPSTYENPFLHAINNGGYNTRIEKYEDGGVLHVSFSYRYEAGRVIGDFKVMGTGFPED
 SVIFTDKIIRSNATVEHLHPMGDNDLDGSFTRTFSLRDGGYSSVVDSHMHFKSAIHPSILQNGGPMFA
 FRRVEEDHSNTELGIVEYQHAFKTPDADAGEERV

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001297735

ORF Size: 873 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).

RefSeq: [NM_001297735.3](#)

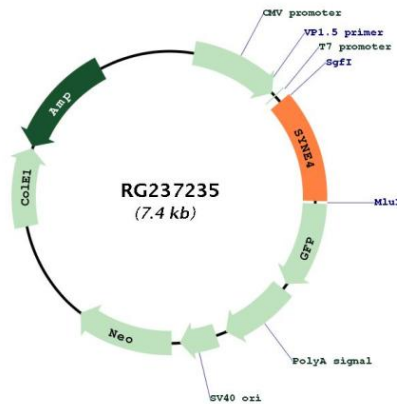
RefSeq Size: 1035 bp

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]

Product images:



Circular map for RG237235