

Product datasheet for **RG223193**

C19orf46 (SYNE4) (NM_001039876) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: C19orf46 (SYNE4) (NM_001039876) Human Tagged ORF Clone
Tag: TurboGFP
Symbol: SYNE4
Synonyms: C19orf46; DFNB76; KASH4; Nesp4
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG223193 representing NM_001039876
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGCCCTGTCCCTGCCTCTGGGCCCTAGACTTGGCTCAGAGCCCTCAACCACCACCGGGAGCACCTA
 GAGAGGCGGACATTGTTGGATGCACCGTCTGCCCGCGTCCGGAGAGGAGAGCAGAGCCAGAGCAGGC
 CCAGACCTGGGACAGGACTCCTTGGGCCCTCTGAGCACTTCCAGGGTGGGCCAAGGGCAATGAGCCT
 GCCGCTACCCCCGAGATGGTCAACACCTCTTCTACGAGGACCCAGCTGGGGCAAACACTGTGAGC
 ACCCATTTCTGGCCTGGAGTACTAGAGGCTGAGCAGAACAGCCTGCACCTGTGCCTGTGGGGCTGGG
 CCGCCGGCTGCAGGACCTGGAGCAAGGCCTGGGGCACTGGGCATTGGCCAGAGTGGGATGTTGCAGCTG
 CAGGCCCTCCAGGTGGACCTACGAGGGGCACTGAGCGTGTGGAGGCGCTGCTAGCGTTTGGTGGGGGC
 TGGCACAGCGGAGTGGAGCCAGGGCCTGGGCAGCCCTGGAGCAGATCCTGCGGGCCCTGGGAGCTTACCG
 AGACTCCATCTTCCGGCGGCTCTGGCAGCTGCAGGCCAGCTGGTCAGCTACAGCCTGGTGTTCGAGGAG
 GCCAACACGCTGGACCAGGACTTGGAGGTCGAGGGAGACTCGGACTGGCCAGGACCTGGTGGGGTCTGGG
 GGCCCTGGGCACCCAGTAGCCTCCCCACTTCCACAGAGTTGGAGTGGGATCCGGCGGGGGACATTGGGGG
 CCTTGGGCCCTTGGGACAAAAGACAGCCCGGACACTAGGAGTGCCTGTGAGCTGTGTGGCCAGAGGGGG
 CCCAGGGCAGGGGACAAGGCCTTGGGAAGCAGACACCTCTCACTCCGACAGGACATGCTGGAGTCTG
 GCCTCGGCCACCAGAAACGCTTAGCACGTACCAAAGACACTCCCTGCTCCGGAAGCCTCAGGACAAGAA
 GAGGCAAGCATCTCCTCATCTCCAGGATGTGAGGCTGGAGGGGAATCCAGGGGCCCCCGATCCTGCATCC
 AGGCAGCCTCTGACCTTCTCCTATCCTCTTCTCCTCTTCTCCTCCTCCTGGTGGGTGCCATGTTTCTCC
 TGCCCGCGTCAGGAGGCCCTGCTGCTCTCATGCCGAATACCCAGGACACCCCTACCTGGTCTCAGCTA
 TGTCATGGTCTTCCCCAGTC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG223193 representing NM_001039876
Red=Cloning site Green=Tags(s)

MALSLPLGPRLGSEPLNHPGAPREADIVGCTVCPASGEESTSPEQAQTLGQDSLGPPEHFQGGPRGNEP
 AAHPPRWSTPSSYEDPAGGKHCEHPISGLEVLEAEQNSLHLCLLGLGRRLQDLEQGLGHWALAQSGMVQL
 QALQVDLRGAAERVEALLAFGEGLAQRSEPRWAALAEQILRALGAYRDSIFRRLWQLQAQLVSYSLVFEE
 ANTLDQDLEVEGDSWPGPGVWGPWAPSSLPTSTELEWDPAGDIGGLGPLGQKTARTLGVPCELCGQRG
 PQGRGQGLEEADTSHSRQDMLESLGHQKRLARHQRHSLLRKPKQKQRQASPHLQDVRLEGNPGAPDPAS
 RQPLTFLLILFLLFLLL VGAMFLLPASGGPCCSHARIPRTPYL VLSYVNGLPPV

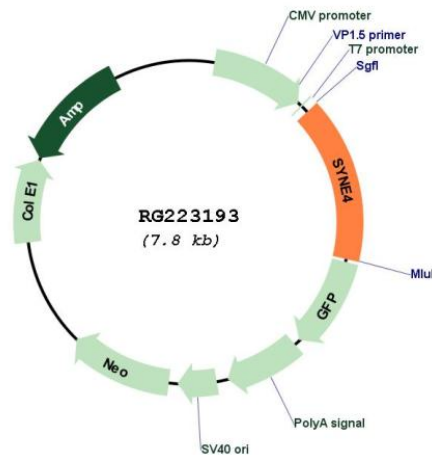
TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001039876

ORF Size:	1212 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_001039876.3
RefSeq Size:	1541 bp
RefSeq ORF:	1215 bp
Locus ID:	163183
UniProt ID:	Q8N205
Cytogenetics:	19q13.12
Protein Families:	Transmembrane
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]