

Product datasheet for **MG219322**

Syvn1 (NM_001164709) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Syvn1 (NM_001164709) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Syvn1
Synonyms:	1200010C09Rik; AW211966; C85322; D530017H19Rik; Hrd1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG219322 representing NM_001164709
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGTTCCGCACCCGAGTGATGATGGCGCCAGCCTGGCGCTAACCGGGCAGTGGTGGCTCATGCCTACT
 ACCTCAAACACCAGTTCTACCCACTGTAGTGTATTTGACCAAGTCCAGCCCCAGCATGGCAGTCCCTGTA
 CATCCAGGCCTTTGTCCTTGTCTTCTCTTGGGCAAGGTGATGGGCAAGGTGTTCTTCGGGCAGCTGAGG
 GCAGCAGAGATGGAGCACCTTCTGGAACGGTCTGGTACGCTGTTACTGAGACTTGTTCGGCCTTACCAG
 TTTTTCGGGATGACTTCAGCCCTCGTTTGTGGCGCTCTTACGCTGCTCCTTCTCCTCAAATGTTTCCA
 TTGGTTGGCTGAAGACCGTGTGGACTTTATGGAACGCAGCCCCAACATCTCTGGCTCTTCCACTGCCGC
 ATCGTCTCTCATGTTTCTCTGGGTATCCTGGACTTCTCTTCGTAGCCAGCCTTATCACAGCATCC
 TGACCCGTGGGGCTTCTGTGCAGCTGGTATTTGGCTTTGAGTACGCCATTCTGATGACCATGGTGCATTAC
 CATCTTACCAAGTATGTGCTGCACTCCGTGGACTCCAGAGCGAGAACCCTGGGACAACAAGGCTGTA
 TACATGCTCTACAGGAGCTGTTTACAGGCTTCATCAAGGTCCTGCTGTACATGGCCTTCATGACCATCA
 TGATCAAGGTGCACACATTTCCACTCTTTGCCATTAGGCCATGTACCTGGCCATGAGGCAGTTCAGAA
 AGCTGTGACAGATGCCATCATGTCTCGCCGAGCCATCCGCAACATGAACACACTGTACCCAGATGCCACC
 CCCGAGGAGCTCCAGGCAATGGATAATGTCTGCATCATCTGCAGAGAAGAAATGGTGACTGGTGTAAAGA
 GATTGCCTTGAACCACATCTTTCACACGAGCTGCCTGCGCTCCTGGTTCAGAGACAGCAGACCTGCC
 GACATGCCGATGGATGTCTGCGGGCATCGTTGCCAGCCAGTACCACCACCTCCTGAGCCTGCTGAC
 CAAGGACCACCCCCGCCCTCATCCCCAACCGCTGCTGCCACAGCCCCCTAATTTCCCCAGGGCCTCC
 TGCCCTCTTTTCTCCAGGCATGTTCCCACTGTGGCCCCCAATGGGTCCCTTTCCACTTCCCGCTCC
 CCAAGCTCAGGAGAGGCTGCGGCCCTCCACCACAGTACAGCCGTTTCTCGGCCTAGTGGAGCAGCC
 ACCACCACAGCTGCTGGCACCAGTACTTCTGCCACGACCTGGGTCTGTACCTGGCCAGAGGCTGGTC
 CTGCCCCCGGCTTCCCTTCCCTCCTCTGGATGGGTATGCCTCTGCCTCCACCTTTTGCCTTCCCCC
 AATGCCTGTGCCCTGCGGGCTTTGCTGGCTAACCCAGAGGAGCTGCGAGCACTAGAGGGCCATGAG
 CGGCAGCACCTGGAGGCCGGCTGCAGAGTCTGCGCAACATACACACTACTGGATGCTGCCATGCTTC
 AAATCAACCAGTACCTACTGTGCTGGCTTCCCTGGGCCCCCAGGCCAGCTACTTCAGTGAACCCAC
 TGAAGAGACTGCCTCTACAGTGGTATCTGCTGCCCTTCCACCAGCGCCCCAGCTGTAGGCTCCTACC
 CCGTCTCCGGGAGCTTCCCACCAATTCCTGAAGCAGAAAAGCCTCCTGCTCCTGAGTCACTGGCATTG
 TAGAGGAGCTTCCGAGGATGGAGAGCCTGATGCTGCAGAACTCCGCCGGCTCGCTGCAGAAGCTGGA
 GTCCCCTGTTGCCAC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>MG219322 representing NM_001164709
 Red=Cloning site Green=Tags(s)

MFRTAVMMAASLALTGAVVAHAYLKHQFYPTVVYLTKSSPSMAVLYIQAFVLFLLGKVMGKVVFFGQLR
 AAEMEHLERSWYAVTETCLAFTVFRDDFSRPFVALFTLLLFLKCFHWLAEDRVDFMERSPNISWLFHCR
 IVSLMFLLGILDFLVSHAYHSILTRGASVQLVGFYAILMTMVLTIKIKYVLHSDVLDQSENPDNKA
 YMLYTELFTGFIKVLVYMAFMTIMIKVHTFPLFAIRPMLAMRQFKKAVTDAIMSRRAIRNMNTLYPDAT
 PEELQAMDNVCIIICREEMVTGAKRLPCNHIFHTSCLRSWFQRQQTCTCRMDVLRASLPAQSPPPPEPAD
 QGPPAPHPQPLLPQPPNFPQGLLPPFPMPGFLWPPMGPFPVPPPPSSGEEAAPPTSTAVSRPSGAA
 TTTAAGTSTSAPAPGSVGPPEAGPAPGFPFPMPMGMPLPPFAFPMPVPPAGFAGLTPPEELRALEGHE
 RQHLEARLQSLRNIHTLLDAAMLQINQYLTVLASLGPFRPATSVPNTEETASTVVSAAPSTAPSSEAPT
 PSPGASPIPEAEKPPAPESVGI VEELPEDGEPDAAELRRRRLQKLESPVAH

TRTRPLE - GFP Tag - V

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_001164709

ORF Size: 1836 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:

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_001164709.1](#), [NP_001158181.1](#)

RefSeq Size: 3103 bp

RefSeq ORF: 1839 bp

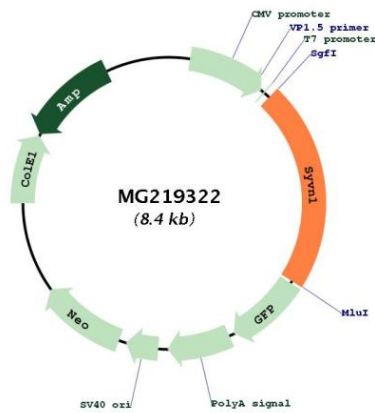
Locus ID: 74126

UniProt ID: [Q9DBY1](#)

Cytogenetics: 19 A

Gene Summary: Acts as an E3 ubiquitin-protein ligase which accepts ubiquitin specifically from endoplasmic reticulum-associated UBC7 E2 ligase and transfers it to substrates, promoting their degradation (PubMed:12975321, PubMed:15611074). Component of the endoplasmic reticulum quality control (ERQC) system also called ER-associated degradation (ERAD) involved in ubiquitin-dependent degradation of misfolded endoplasmic reticulum proteins (PubMed:12975321, PubMed:15611074). Also promotes the degradation of normal but naturally short-lived proteins such as SGK. Protects cells from ER stress-induced apoptosis. Sequesters p53/TP53 in the cytoplasm and promotes its degradation, thereby negatively regulating its biological function in transcription, cell cycle regulation and apoptosis (PubMed:17170702). Required for embryogenesis (PubMed:15611074). Mediates the ubiquitination and subsequent degradation of cytoplasmic NFE2L1 (PubMed:21911472). [UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MG219322