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Product datasheet for RG223321

SYDE1 (NM_033025) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	TurboGFP
Symbol:	SYDE1
Synonyms:	7h3; SYD1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)

View online »

ORF Nucleotide Sequence:

>RG223321 representing NM_033025
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGCCGAGCCGCTACTCAGGAAAACCTTCTCCCGCCTGCGGGGCCGGGAGAAACTTCCCCGGAAAAAGT
CGGACGCCAAGGAGCGCGGCCACCCAGCCCAGCGCCCAGAGCCCAGCCCTCCAGAGCCAGAGCCCCAGGC
TCCCGAAGGGTCCCAGGCCGGAGCAGAGGGGCCCTCCAGCCCCGAGGCATCAAGGAGCCCTGCACGGGGA
GCCTACCTGCAAAGCCTGGAGCCCAGTAGCCGCCGATGGGTGCTGGGTGGGGCCAAGCCAGCTGAGGACA
CCTCTTTAGGGCCTGGGGTACCTGGCACTGGGGAGCCCGCCGGCGAGATCTGGTACAACCCCATCCCTGA
GGAAGACCCCAGACCTCCAGCACCTGAGCCCCCGGGGCCACAGCCTGGCTCAGCTGAGTCAGAGGGCCTG
GCCCCCCAAGGTGCAGCCCCCGCCAGCCCCCCAACCAAAGCCTCCCGCACCAAGTCCCCGGGCCCCGCCA
GGCGCCTCTCCATAAAGATGAAGAAGCTGCCGGAACTGCGGCGCCGCCTGAGCCTGCGAGGCCCCCGGGC
TGGCAGGGAGCGCGAGAGGGCTGCCCCTGCGGGCTCCGTCATCAGCCGCTACCACCTGGACAGCAGCGTG
GGGGGCCCCGGGCCGGCAGCAGGGCCTGGGGGCACCCGGAGCCCGAGGGCCGGTTACCTCAGCGACGGGG
ACTCACCGGAGCGCCCAGCTGGGCCCCCATCACCCACCTCCTTCCGGCCCTACGAGGTGGGTCCCGCAGC
CCGGGCACCCCCGGCCGCACTCTGGGGCCGCCTCAGCCTGCACCTGTACGGTCTCGGGGGGCTGCGGCCA
GCGCCGGGGGCCACCCCCAGGGACCTCTGCTGCCTACTGCAAGTGGATGGGGAGGCCAGGGCCCGAACAG
GGCCACTGCGAGGGGGGCCGGACTTCCTGCGGCTGGACCACACCTTCCACCTGGAGCTGGAGGCCGCCAG
GCTCCTGCGCGCCCTGGTGCTTGCGTGGGACCCTGGCGTGAGAAGGCACCGGCCCTGTGCCCAGGGCACC
GTGCTGCTGCCCACGGTCTTCCGAGGGTGCCAGGCCCAACAGCTGGCCGTGCGCCTGGAGCCTCAGGGGC
TGCTGTATGCCAAGCTGACCCTGTCGGAGCAGCAGGAAGCCCCTGCCACAGCTGAGCCCCGCGTCTTTGG
GCTGCCCCTGCCACTGCTGGTGGAGCGGGAGCGGCCCCCCGGCCAGGTGCCCCTCATCATCCAGAAGTGC
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AGAAAGAGCTTCGGGATGCCTTTGAGCGGGACAGTGCAGCGGTCTGCCTATCTGAGGACCTGTACCCCGA
TATCAATGTCATCACTGGCATCCTCAAGGATTATCTTCGAGAGTTGCCCACCCCACTCATCACCCAACCC
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CCCGAGGGCTCCTCAGCTGCCTGCCAGATGTGGAAAGGGCCACGCTGACGCTTCTCCTGGACCACCTGCG
CCTCGTCTCCTCCTTCCATGCCTACAACCGCATGACCCCACAGAACTTGGCCGTGTGCTTCGGGCCTGTG
CTGCTGCCGGCACGCCAGGCGCCCACAAGGCCTCGTGCCCGCAGCTCCGGCCCAGGCCTTGCCAGTGCAG
TGGACTTCAAGCACCACATCGAGGTGCTGCACTACCTGCTGCAGTCTTGGCCAGATCCCCGCCTGCCCCG
ACAATCTCCAGATGTCGCGCCTTACTTGCGACCCAAACGACAGCCACCTCTGCACCTGCCGCTGGCAGAC
CCCGAAGTGGTGACTCGGCCCCGCGGTCGAGGAGGCCCCGAAAGCCCCCCGAGCAACCGCTACGCCGGCG
ACTGGAGCGTTTGCGGGCGGGACTTCCTGCCTTGTGGGCGGGATTTCCTGTCCGGGCCAGACTACGACCA
CGTGACGGGCAGTGACAGCGAGGACGAGGACGAGGAGGTCGGCGAGCCGAGGGTCACCGGTGACTTCGAA
GACGACTTCGATGCGCCCTTCAACCCGCACCTGAATCTCAAAGACTTCGACGCCCTCATCCTGGATCTGG
AGAGAGAGCTCTCCAAGCAAATCAACGTGTGCCTC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

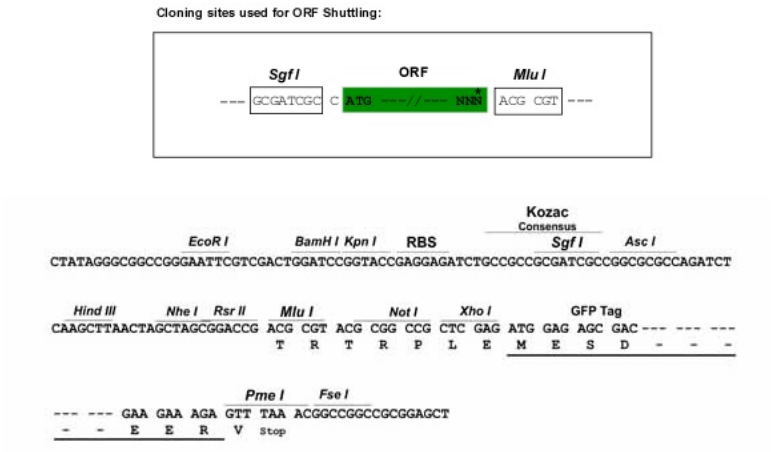
>RG223321 representing NM_033025
Red=Cloning site Green=Tags(s)

MAEPLLRKTFSRLRGREKLPRKKSDAKERGHPAQRPEPSPPEPEPQAPEGSQAGAEGPSSPEASRSPARG
AYLQSLEPSSRRWVLGGAKPAEDTSLGPGVPGTGEPAGEIWYNPIPEEDPRPPAPEPPGPQPGSAESEGL
APQGAAPASPPTKASRTKSPGPARRLSIKMKKLPELRRRLSLRGPRAGRERERAAPAGSVISRYHLDSSV
GGPGPAAGPGGTRSPRAGYLSDGDSPERPAGPPSPTSFRPYEVGPAARAPPAALWGRLSLHLYGLGGLRP
APGATPRDLCCLLQVDGEARARTGPLRGGPDFLRLDHTFHLELEAARLLRALVLAWDPGVRRHRPCAQGT
VLLPTVFRGCQAQQLAVRLEPQGLLYAKLTLSEQQEAPATAEPRVFGLPLPLLVERERPPGQVPLIIQKC
VGQIERRGLRVVGLYRLCGSAAVKKELRDAFERDSAAVCLSEDLYPDINVITGILKDYLRELPTPLITQP
LYKVVLEAMARDPPNRVPPTTEGTRGLLSCLPDVERATLTLLLDHLRLVSSFHAYNRMTPQNLAVCFGPV
LLPARQAPTRPRARSSGPGLASAVDFKHHIEVLHYLLQSWPDPRLPRQSPDVAPYLRPKRQPPLHLPLAD
PEVVTRPRGRGGPESPPSNRYAGDWSVCGRDFLPCGRDFLSGPDYDHVTGSDSEDEDEEVGEPRVTGDFE
DDFDAPFNPHLNLKDFDALILDLERELSKQINVCL

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:

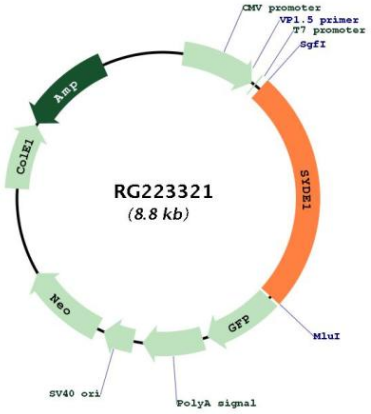


ACCN: NM_033025

ORF Size: 2205 bp

OTI Disclaimer:	Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery. 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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	NM_033025.4, NP_149014.3
RefSeq Size:	3254 bp
RefSeq ORF:	2208 bp
Locus ID:	85360
UniProt ID:	Q6ZW31
Cytogenetics:	19p13.12
Gene Summary:	The protein encoded by this gene is a Rho GTPase-activating protein highly expressed in placenta. The encoded protein is involved in cytoskeletal remodeling and trophoblast cell migration. Decreased expression of this gene has been associated with intrauterine growth restriction (IUGR). [provided by RefSeq, Feb 2017]

Product images:



Circular map for RG223321