

Product datasheet for **RG221270**

SYDE2 (NM_032184) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	TurboGFP
Symbol:	SYDE2
Mammalian Cell	Neomycin
Selection:	
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)

ORF Nucleotide Sequence: >RG221270 representing NM_032184
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGCATCGCC**

ATGCACGACCTGCCCCCTGACTCGGGCGCGCGGGCGGCAGGGGCTTGCGGATCACAGCTTCCCCG
CGGGAGCCCCGGCTCCGGGCCAGCCGCTTCCCGCGGCCGCGTACCGCCGAGCTGCCCCGGGACGG
GGAGCGGGGAGGCGCGGACGCCCTCGGCAGCAGGTGTCCCGCCCCGGTCGCCTCAGAGGGAGCCGCGG
GGAGGCCAGCTGCGGACTCCTCGGATGCGGCCGTCTGCAGCAGAAGCCTCGAGAGCCTCCGGGTGGGTG
CCAAGCCGCTCCCTTCCAGCGGTGGCCGAGCGACAGCTGGATCAGGTGCGGCGCGCACCGGGACTGGGA
CGAGCCCCGCCACGTGGAGGCAGGATGGACGGCTGGAGTGGGACCGCGCCCGGGCGGCTGCACCCACC
GGCCTCCAGCCTCCAGGCTGCAAGGACACGGCTGCTCCTCGGAAGCCCTTTCAGGGATCCAGCGGGGT
CCTCTGTGATACGCACTGGCAAAGGAGACCGCCAGGAAGGCCCTCCTTCTCAGGCCGCCGCGCAGTGAC
AGTCAAGAAGCTGCAGAAGTGGATGTACAAAGGGCGTCTGCTGTCCCTGGGAATGAAGGGTCTGCCCGT
GGGACGGCTCCCAAAGTCACAGGAACGACGACGCTCCCAAATGTGGCGCTTTGAAAGTGCCTGAAA
ACCGTGTCTGTCGGTGCCTCCAGACCAAAGAATTACGCTGACAGATTTATTTGAAAATGCCTATGGGT
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ACAGTCTTTCTCAAATCATCTAAAGAGTACTGTACATATGTGGTATGTAACGCTACAACTCTTCATTA
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AAGAGTGTACATTTAGACATATTTGACATGCAGACAGTTGAGTCTACAGTGGATCGAAAAACAATCT
CAAAGATCTACAAGAAAAGTATTGATACTTTGATTGGAATCTGGAACGTGAGCTCAACAAAAACAAGCTT
AATATGAGTTTT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG221270 representing NM_032184

Red=Cloning site Green=Tags(s)

MHDLPPDSGARRGRLADHSFPAGARAPGQPPSRGAAYRRACPRDGERGGGRPRQVSPPRSPQREPR
GGQLRTPMRPSCSRSLERLVGAKPPPFQRWPSDSWIRCGAHRDWEPPPRGGRMDGWSGDRARAAAPT
GLQPPGCKDHGSSGSPFRDPAGSSVIRSGKQDRQEGPSFLRPPAVTVKKLQKWMYKGRLLSLGMKGRAR
GTAPKVTGTQAASPNVGALKVRENRLSVPPDQRTITLTDLFENAYGSSMKGRELEELKDNIEFRGHKPLN
SITVSKKRNLWYQSTLRPLNLEENKKQDRSHLSISPVSLPKHQLSQSFLKSSKEYCTYVVCNATNSSL
SKNCALDFNEENDADDEGEIWNPIPEDDDLGISSALSFGEADSAVLKLPVNLMLSGSMLMKAERHTE
DSLCSSEHAGDIQTTRSNGMNPPIHPAHSTEFVQYQKQLGHKTQEGIMVEDSPMLKSPFAGSGILAATNS
TELGIMEPSSPNPSPVKKGSSINWSPDKIKSPRTVRKLSMKMKLPEFSRKL SVKGTLNLYINSPDNTPS
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DVFCATQVDSVNKARTALLTCRTTFLDMHTFNIEIENAHKLKLVFVSWEPTPRKNRVCCCHGTVVLPTLF
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EIEKRGCCQVVLRYLCSAAVKKELREAFERDSKAVGLCENQYPDINVITGVLDYLRPLITKQLY
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YLRQKKERPHMLNLSGTDSSGVLPRQRNLDSPLSNRYAGDWSSCGENYFLNTKENLNDVDYDDVPSEDR
KIGENYSKMDGPEVMIEQPIPMSEKCTFQTYLTMQTVESTVDRKNNLKDQLQESIDTLIGNLERELNKNKL
NMSF

TRTRPLE - GFP Tag - V

Restriction Sites:

SgfI-MluI

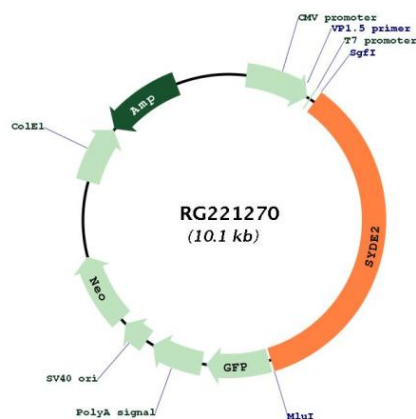
Cloning Scheme:



ACCN:	NM_032184
ORF Size:	3582 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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	NM_032184.2

RefSeq Size:	4711 bp
RefSeq ORF:	3585 bp
Locus ID:	84144
UniProt ID:	Q5VT97
Cytogenetics:	1p22.3
Gene Summary:	GTPase activator for the Rho-type GTPases by converting them to an inactive GDP-bound state.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RG221270