

Product datasheet for **MG205637**

Sh2d2a (NM_001025571) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Sh2d2a (NM_001025571) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Sh2d2a
Synonyms:	Lad; Ribp; Tsad
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG205637 representing NM_001025571 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGAGTTCTGCTTGGCCCAACCATGCCCCAAGGGAATCATGAAGCTACTTCATCAACCTTCAACACCT
TCCAGCCAATGAACCTGACCCAGGGGAGATGCCAGAACTTGAGTTGTGGGAGCAGGCCAGCATGCAAGT
TATGAAGAACAGGGGTTTCAGCTCAGCCCCAGAATAACCACACGGTGGTCTCTGCCTCAGCCCCAGGA
ACTGCCTGGGTCCTAGGGAATGCCGATAGGGCAGAAGAGGTGCCTGGGAAAGGTGACCTGTCATTGCAAG
CTGAGACCAGAGCATGGGTCCAGAAGACCCAGGCCACTGGCTCTTGCTCAAGACTGCCCTCTTTGGTT
CCATGGCTTCATCACCAGAAGGGAAGCCGAGAGGCTGCTGCAGCCCCAGCCTCTAGGATGCTATCTGGTG
CGCTTCAGCGAGAGTGCTGTGACCTTCGTGCTGTCTACAGGAGCCAGACCTGCTGCCGTCACTTCTCC
TCGCGCAGCTAGGGGATGGGCGCCACGTGGTGCTAGGTGAAGACAGTGCCCATGCGCAGCTTCAGGACCT
GCTTGAACATTACACAGAGTGCCCCCTCAGCCCCACGGAGAGATACTCACCCAACCCCTCGCTCGACAG
ACAGCTGAGCCTGCTGGACTTTCCTAAGGGCTGATTCAGACTCTGGAAGCAAAGACAGGACCCAGACA
CCCAGCTCAGCCTGCTCCTCAAACAGGGCCAGGCCAGGCCTCAGGACACACAGAAAAACATCCCAGGC
ATCCAGACCCAGGCCGCCATCCCCGCAAGCCTCAGCTTCTCTCTGAAGTCTATAAAGTCTGCTTCA
CGACTGCATCAGGCCCAACCCATTAACCCCATCTACCAGGAGCCTGATGAACCCATAGCCTCTATGCCA
TGGGGCGGGCAGCCCTGGGGACGCTCCTAGTAATATCTATGCTGAGGTGGAAGGCCATCGGGAACGGC
GCCATTGGACACCCATCCTCCGAAAGTGCTGGTCCAGGCCTATTCTCAAGAGGCCAGGTAAAGGAGGTA
CAGGAAAGATAAGTCAAGGAGTCGAGCAGAAAGAGGGAGCCCTCC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG205637 representing NM_001025571
 Red=Cloning site Green=Tags(s)

MEFCLAQPCPQGNHEATSSFTNTFQPMNLTQGRQCQLSCGSRPSMQVMKEQGVQLSPRTNHTVVSASAPG
 TAWVLGNADRAEEVPGKGDLSLQAE TRAWVQKTQAHWLLKTA PLWFHGFITRREAERLLQPQLGCYL V
 RFSESAVTFVL SYRSQTCCRHFLLAQLGDGRHVVLGEDSAHAQLQDLLEHYTECPLSPYGEILTQPLARQ
 TAEPAGLSLRADSDSGSKRQDPDTQLSLLLQQGQAQASGHTEKTSQASRPRPPIPAKQLPPEVYTSPAS
 RLHQAPPINPIYQEPDEPIAFYAMGRGSPGDAPSNIIYAEVEGPGTAPIGHPILRKCWSRPI SRGQVREV
 QGKISSRSRAERGPS

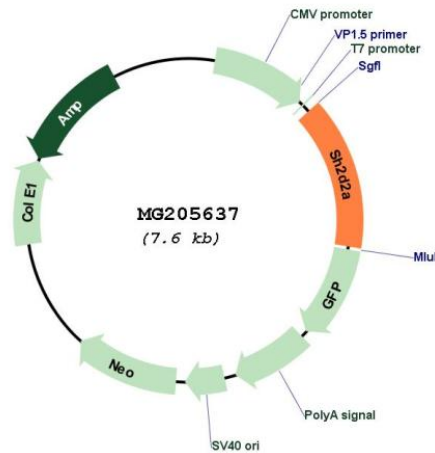
TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001025571

ORF Size:	1098 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_001025571.2
RefSeq Size:	4478 bp
RefSeq ORF:	1101 bp
Locus ID:	27371
Cytogenetics:	3 38.78 cM
Gene Summary:	Could be a T-cell-specific adapter protein involved in the control of T-cell activation. May play a role in p56-LCK-mediated T-cell signaling. Could be involved in the regulation of responses to T-cell activation stimuli, specifically proliferation and lymphokine production. Interactions with ITK and TXK may provide important biochemical links of these two important kinases with other components in the T-cell activation machinery.[UniProtKB/Swiss-Prot Function]