

Product datasheet for MR205637

Sh2d2a (NM_001025571) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Sh2d2a (NM_001025571) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Sh2d2a
Synonyms:	Lad; Ribp; Tsad
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR205637 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGAGTTCGCTTGGCCCAACCATGCCCAAGGGAATCATGAAGCTACTTCATCAACCTTCAACACCT
TCCAGCCAATGAACCTGACCCAGGGGAGATGCCAGAACTTGAGTTGTGGGAGCAGGCCAGCATGCAAGT
TATGAAGGAACAGGGGTTTCAGCTCAGCCCCAGAATAACACACGGTGGTCTCTGCCTCAGCCCCAGGA
ACTGCCTGGGTCCTAGGGAATGCCGATAGGGCAGAAGAGGTGCCTGGGAAAGGTGACCTGTCATTGCAAG
CTGAGACCAGAGCATGGGTCCAGAAGACCCAGGCCACTGGCTCTTGCTCAAGACTGCCCTCTTTGGTT
CCATGGCTTCATCACCAGAAGGGAAGCCGAGAGGCTGCTGCAGCCCCAGCCTCTAGGATGCTATCTGGTG
CGCTTCAGCGAGAGTGCTGTGACCTTCGTGCTGTCTACAGGAGCCAGACCTGCTGCCGTCACTTCTCC
TCGCGCAGCTAGGGGATGGGCGCCACGTGGTGCTAGGTGAAGACAGTGCCCATGCGCAGCTTCAGGACCT
GCTTGAACATTACACAGAGTGCCCCCTCAGCCCCACGGAGAGATACTCACCCAACCCCTCGCTCGACAG
ACAGCTGAGCCTGCTGGACTTTCCTAAGGGCTGATTGAGACTCTGGAAGCAAAGACAGGACCCAGACA
CCCAGCTCAGCCTGCTCCTCAAACAGGGCCAGGCCAGGCCTCAGGACACACAGAAAAACATCCCAGGC
ATCCAGACCCAGGCCGCCATCCCCGCAAGCCTCAGCTTCTCTCTGAAGTCTATAAAGTCTGCTTCA
CGACTGCATCAGGCCCAACCCATTAACCCCATCTACCAGGAGCCTGATGAACCCATAGCCTTCTATGCCA
TGGGGCGGGCAGCCCTGGGGACGCTCCTAGTAATATCTATGCTGAGGTGGAAGGCCATCGGGAACGGC
GCCATTGGACACCCATCCTCCGAAAGTGCTGGTCCAGGCCTATTCTCAAGAGGCCAGGTAAAGGAGGTA
CAGGAAAGATAAGTCAAGGAGTCGAGCAGAAAGAGGGAGCCCTCC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR205637 protein sequence
 Red=Cloning site Green=Tags(s)

MEFCLAQPCPQGNHEATSSSTFNTFQPMNLTQGRQCQLSCGSRPSMQVMKEQGVQLSPRTNHTVVSASAPG
 TAWVLGNADRAEEVPGKGDLSLQAETRAWVQKTAHWL LLLKTA PLWFHGFITRREAERLLQPQLGCYL V
 RFSESAVTFVL SYRSQTCCRHFLLAQLGDGRHVVLGEDSAHAQLQDLLEHYTECLSPYGEILTQPLARQ
 TAEPAGLSLRADSDSGSKRQDPDTQLSLLLQQGQAQASGHTEKTSQASRPRPPIPAKQLPPEVYTPAS
 RLHQAPPINPIYQEPDEPIAFYAMGRGSPGDAPSNIYAEVEGSPGTAPIGHPILRKCWSRPI SRGQVREV
 QGKISSRSRAERGPS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_001025571

ORF Size: 1101 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_001025571.2](#)

RefSeq Size: 4734 bp

RefSeq ORF: 1101 bp

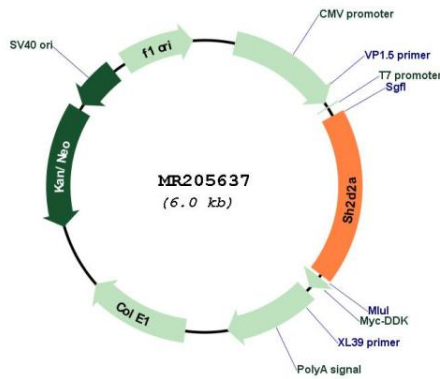
Locus ID: 27371

Cytogenetics: 3 38.78 cM

MW: 40.1 kDa

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]

Product images:



Circular map for MR205637