

## Product datasheet for MR219755

### Sh2d2a (NM\_021309) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Sh2d2a (NM_021309) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Sh2d2a
Synonyms:	Lad; Ribp; Tsad
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>MR219755 representing NM_021309 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGGATCGCC**

ATGGAGTTCTGCTTGGCCCAACCATGCCCCCAAGGAATCATGAAGCTACTTCATCAACCTTCAACACCT  
TCCAGCCAATGAACCTGACCCAGGGGAGATGCCAGAACTTGAGTTGTGGGAGCAGGCCCAGCATGCAAGT  
TATGAAGGAACAGGGGGTTCAGCTCAGCCCCAGAACTAACCACACGGTGGTCTCTGCCTCAGCCCCAGGA  
ACTGCCTGGGTCTTAGGGAATGCCGATAGGGCAGAAAGAGGTGCCTGGGAAAGGTGACCTGTATTGCAAG  
CTGAGACCAGAGCATGGGTCCAGAAGACCCAGGCCCACTGGCTCTTGCTCAAGACTGCCCTCTTTGGTT  
CCATGGCTTATCACCAGAAGGGAAGCCGAGAGGCTGCTGCAGCCCAGCCTCTAGGATGCTATCTGGTG  
CGCTTCAGCGAGAGTGTGTGACCTTCGTGCTGCTCCTACAGGAGCCAGACCTGCTGCCGTCACCTCCTCC  
TCGCGCAGCTAGGGGATGGGCGCCACGTGGTGTAGGTGAAGACAGTGCCCATGCGCAGCTTCAGGACCT  
GCTTGAACATTACACAGAGTGCCCCCTCAGCCCCACGGAGAGATACTCACCCAACCCCTCGCTCGACAG  
ACAGCTGAGCCTGCTGGACTTCCCTAAGGGCTGATTGAGACTCTGGAAGCAAAGACAGGACCCAGACA  
CCAGCTCAGCCTGCTCCTCAACAGGGCCAGGCCAGGCTCAGGACACACAGAGAAAGTATGGGCCTC  
CCAACAGAAGGGGACATCCAGGCATCCAGACCCAGGCCGCCATCCCCGCCAAGCCTCAGCTTCTCCT  
GAAGTCTATAAAGTCTGCTTACGACTGCATCAGGCCCAACCCATTAACCCCATCTACCAGGAGCCTG  
ATGAACCCATAGCCTTCTATGCCATGGGGCGGGGAGCCCTGGGGACGCTCCTAGTAATATCTATGCTGA  
GGTGAAGGGCCATCGGGAACGGCGCCATTGGACACCCCATCTCCGAAAGTGTGGTCCAGGCCATC  
TCAAGAGGCCAGGTAAGGGAGGTACAGGAAAGATAAGCTCAAGGAGTCGAGCAGAAAGAGGGAGCCCT  
CC

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



**Protein Sequence:** >MR219755 representing NM\_021309  
 Red=Cloning site Green=Tags(s)

MEFCLAQPCPQGNHEATSSFTNTFQPMNLTQGRQNLSCGSRPSMQVMKEQGVQLSPRTNHTVVSASAPG  
 TAWVLGNADRAEEVPGKGDLSLQAETRAWVQKTAHWL LLLKTA PLWFHGFITRREAERLLQPPLGCVL V  
 RFSESAVTFVL SYRSQTCCRHFLLAQLGDGRHVVLGEDSAHAQLQDLLEHYTECPLSPYGEILTQPLARQ  
 TAEPAGLSLRADSDSGSKRQDPDTQLSLLLQQGQAQASGHTEKVVASQQKATSQASRPRPPIPAKPQLPP  
 EYVYTPASARLHQAPPINPIYQEPDEPIAFYAMGRGSPGDAPSNIIYAEVEGSPGTAPIGHPILRKCCWSRPI  
 SRGQVREVQGKISSRSRAERGSPTS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

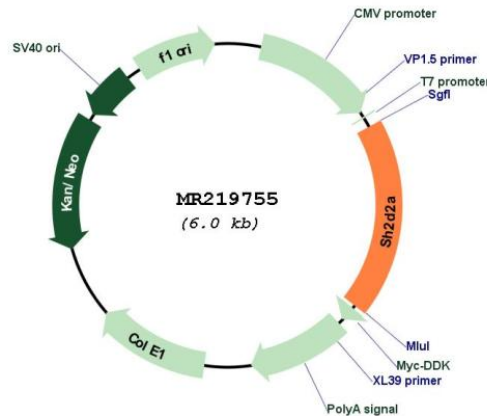
**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**



**Plasmid Map:**



**ACCN:**

NM\_021309

<b>ORF Size:</b>	1122 bp
<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_021309.3</a> , <a href="#">NP_067284.1</a>
<b>RefSeq Size:</b>	4758 bp
<b>RefSeq ORF:</b>	1125 bp
<b>Locus ID:</b>	27371
<b>UniProt ID:</b>	<a href="#">Q9QXK9</a>
<b>Cytogenetics:</b>	3 38.78 cM
<b>MW:</b>	41.4 kDa
<b>Gene Summary:</b>	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]