

Product datasheet for **MC209391**

Sh2d1a (NM_011364) Mouse Untagged Clone

Product data:

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| Product Type: | Expression Plasmids |
| Product Name: | Sh2d1a (NM_011364) Mouse Untagged Clone |
| Tag: | Tag Free |
| Symbol: | Sh2d1a |
| Synonyms: | Gm686; SAP |
| Mammalian Cell Selection: | Neomycin |
| Vector: | pCMV6-Entry (PS100001) |
| E. coli Selection: | Kanamycin (25 ug/mL) |
| Fully Sequenced ORF: | >MC209391 representing NM_011364 Red=Cloning site Blue=ORF Orange=Stop codon |

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGATGCAGTACTGTGTACCACGGCAAATCAGCAGGGAGACCGGGGAGAAGCTTCTACTCGCTACCG
GGCTGGATGGAAGCTATCTGCTGCGAGACAGCGAGAGTGTCCCTGGCGTGTACTGCCTGTGTGTTTTGTA
TCAAGTTACATCTACACATATCGAGTGTCCAGACAGAAACAGGTTCTGGAGTGCCGAGACAGCACCT
GGAGTACATAAAAGATTTTTCCGAAAGTAAAAATCTCATCTCAGCGTTTCAGAAGCCGGATCAAGGCA
TCGTGACGCTCTGCAGTATCCAGTTGAAAAGTCTCTGGCAGGGGCCACAAGCTCCACAGGGAGAAG
AGATTCTGATATCTGCCTGAATGCACCATGA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

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| Restriction Sites: | Sgfl-MluI |
| ACCN: | NM_011364 |
| Insert Size: | 381 bp |
| OTI Disclaimer: | Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP). |



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| 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_011364.4 , NP_035494.1 |
| RefSeq Size: | 888 bp |
| RefSeq ORF: | 381 bp |
| Locus ID: | 20400 |
| UniProt ID: | O88890 |
| Cytogenetics: | X A4 |
| Gene Summary: | <p>Cytoplasmic adapter regulating receptors of the signaling lymphocytic activation molecule (SLAM) family such as SLAMF1, CD244, LY9, CD84, SLAMF6 and SLAMF7. In SLAM signaling seems to cooperate with SH2D1B/EAT-2. Initially it has been proposed that association with SLAMF1 prevents SLAMF1 binding to inhibitory effectors including INPP5D/SHIP1 and PTPN11/SHP-2. However, by simultaneous interactions, recruits FYN which subsequently phosphorylates and activates SLAMF1 (By similarity). Positively regulates CD244/2B4- and CD84-mediated natural killer (NK) cell functions (PubMed:22683124). Can also promote CD48-, SLAMF6-, LY9-, and SLAMF7-mediated NK cell activation (PubMed:19648922). In the context of NK cell-mediated cytotoxicity enhances conjugate formation with target cells (PubMed:22683124). May also regulate the activity of the neurotrophin receptors NTRK1, NTRK2 and NTRK3.[UniProtKB/Swiss-Prot Function]</p> <p>Transcript Variant: This variant (2) lacks an alternate in-frame exon compared to variant 1. The resulting isoform (2) has the same N- and C-termini but is shorter compared to isoform 1.</p> |