

Product datasheet for **SC324569**

Slap (SLA) (NM_001045556) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Slap (SLA) (NM_001045556) Human Untagged Clone
Tag:	Tag Free
Symbol:	Slap
Synonyms:	SLA1; SLAP
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC (PS100020)
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene sequence for NM_001045556.1
 GCCAGAAAAATGATGCACGATGCTCTCTAAACTGGGTCATTCTCCACTTGGAGGGCTCAG
 GGCACGGTTGACTTTCCCGTCTGTCTCCTATACCACAGGCTCTGGGCATCACCAGCGGC
 CCCAGGGAAAAAGAAAGAAATGGGAAACAGCATGAAATCCACCCCTGCGCCTGCCGAGAG
 GCCCTGCCCAACCCGGAGGGACTGGATAGCGACTTCTTGCCGTGCTAAGTGACTACCC
 GTCTCCTGACATCAGCCCCCGATATTCGCGGAGGGGAGAAACTGCGTGTGATTCTGA
 TGAAGGGGGCTGGTGAAAGCTATTTCTTAGCACTGGTCGAGAGAGTTACATCCCTGG
 AATATGTGTGCCAGAGTTTACCATGGCTGTTTGAGGGCCTGGGCAGAGACAAGGC
 CGAGGAGCTGCTGCAGCTGCCAGACACAAGGTCGGCTCCTTTATGATCAGAGAGAGTGA
 GACCAAGAAAGGGTTTTACTCACTGTGCGGTGAGACACAGGCAGGTAAGCATTACCGCAT
 TTTCCGTCTGCCAACAACCTGGTACTACATTTCCCGAGGCTCACCTTCCAGTGCCTGGA
 GGACCTGGTGAACCACTATTCTGAGGTGGCTGATGGCCTGTGCTGTGCTCACCACGCC
 CTGCCTGACACAAAGCACGGCTGCCCCAGCAGTGAGGGCCTCCAGCTCACCTGTACCTT
 GCGTCAGAAGACTGTGGACTGGAGGAGAGTGTCCAGACTGCAGGAGGACCCCGAGGGAAC
 AGAGAACCCGCTTGGGGTAGACGAGTCCCTTTTCAGCTATGGCCTTCGAGAGAGCATTGC
 CTCTTACCTGTCCCTGACCAAGTGAAGACACACCTCCTTTGATCGAAAGAAGAAAAGCAT
 CTCCTGATGTATGGTGGCAGCAAGAGAAAGAGCTCATTCTTCTCATCACCACCTTACTT
 TGAGGACTAGCCAAGAACAGACACAATGGTTTCATGCCAAAAGGAACAGAAGTTCCAACCT
 ATTGCTGGGATCTTGCGAAAAGCGAGGTTCCCTGATCCCTGGGAGCCTCACGATTTTTA
 GAAGCCAAGAGAAGCCACATGGAGACTCAAATTCGCATCTTCTCTATCCACATCATGACC
 AAAGGAACCCCTCCCTGGTGTCTGATCAGGGCTGTGGCATCACGAAACATTGGATCATGA
 CATGTCGGGCGATGCTTGAAGAGCCCAGCATGTATGTATGCACACATTGTGTGTGGG
 AAGGACAAAGCCACTCTCACAAAGAAAGGGCACCAGGACTGCTCTCCAAGGAACTGGACCT
 GTCAGACAGTTACACTCCAAGGTCATTGGAGAGAACTTCTGTATGGGCAAGCCTGAGAG
 GGAGAGGAAACAAAAGCTGTGTCCTGGCAGAAAGTCTGGGTTTGCAGATGGGTGCCTGA
 ATGGAACTACTTTAACTAATCCATAGGGACTTCTGGTATGCTTTTCTCTTTTTAAAGG
 AACTTCGTGACACTAAACATTAGCCCAAAGGACTTCTTAGCCTTCAATTGGGAGATACCT
 TTGGTCTGCTCTGCACCAAAGCCATATGGGTGGAAGTCAGTTGGCCTCCCTGGTTCTGC
 AGAGGGCCAGAAGATGAGAGAGAGGAAGACTGCTGGCAGGAAATCGAGGAGGCGAGAC
 TAGAACTGCACCAGCTTCCCTGATGTCTGCAGCCATGGCTTTCAGCGCAGACAGAGCTT
 CTCTGGGATGCTGGGATTCTTGCTGTATGAATGCATCAAGTATTCATTTATTGCCCGAA
 TAGGCATTGCATTAAGTCCTCTGTAAGGTGTGAGCAAGCAAAAAAAAAAAAAAAAAAAAA
 AAAAAAAAAA

Restriction Sites: Please inquire

ACCN: NM_001045556

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).

OTI Annotation: This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.

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_001045556.1](#), [NP_001039021.1](#)

RefSeq Size: 3446 bp

RefSeq ORF: 831 bp

Locus ID: 6503

UniProt ID: [Q13239](#)

Cytogenetics: 8q24.22

Protein Families: Druggable Genome

Gene Summary: Adapter protein, which negatively regulates T-cell receptor (TCR) signaling. Inhibits T-cell antigen-receptor induced activation of nuclear factor of activated T-cells. Involved in the negative regulation of positive selection and mitosis of T-cells. May act by linking signaling proteins such as ZAP70 with CBL, leading to a CBL dependent degradation of signaling proteins.[UniProtKB/Swiss-Prot Function]

Transcript Variant: This variant (1) represents the longest transcript and encodes isoform (a). CCDS Note: This CCDS represents a 276 aa protein that is encoded by NM_001045556.2, which is based on BX648382.1 and several locally supporting ESTs. However, it should be noted that NM_001045556.2 contains an upstream translation start codon at nts 504-506, as used in the NM_001045557.2 variant which encodes a 293 aa protein. The use of this upstream start codon in NM_001045556.2 would result in only a 15 aa ORF with a stop codon in the second exon. The short length of this upstream ORF may allow escape from nonsense-mediated mRNA decay (NMD) and translation reinitiation at the downstream start codon (nts 833-835) to encode the represented 276 aa protein, or alternatively, the weak Kozak signal at the upstream start codon may enable leaky scanning by the translation machinery and subsequent use of the downstream start codon. The 276 aa protein is consistent with reports in the literature, including PMIDs:7543898, 8825655 and 9660183. Variants encoding both the longer and shorter isoforms are also present in mouse (NM_001029841.3 and NM_009192.2, respectively).