

Product datasheet for SC322596

SHLD1 (NM_152504) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SHLD1 (NM_152504) Human Untagged Clone
Tag:	Tag Free
Symbol:	SHLD1
Synonyms:	C20orf196; RINN3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC (PS100020)
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene sequence for SC322596

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CCGCGTTCCGGTTGCGGATGGTGAGTGTGTCGGGGGGCTTGGCGGCTTTTCTCCTCAGTT
TTCTGGAGTGCTTTGGAGGAGAGGACTATGGCAGCCAGGGACGCCACTTCAGGCAGCCTG
TCAGAGGAGAGCAGTGCTTTGGACCTGCCATCAGCGTGTGACATAAGAGATTACGTCCTG
CAGGGACCCAGCCAAGAAGCCAACAGCGAGGCTTTCAGTTCTTTGGAATTCCATTCTTTT
CCTTATTCTTCTGATGTGGATCCAGACACCAGTAACTAAATATAGAACAAAATAACTCC
TGGACCGCTGAGAACTTCTGGCTTGACCCTGCTGTGAAAGGCCAGTCAGAGAAGGAAGAG
GATGATGGCCTTCGAAATCCCTGGATAGATTCTATGAAATGTTTGGTCATCCACAGCCA
GGCTCTGCAAACTCACTCTCTGCATCTGTCTGCAAGTGCCTGTCTCAGAAAACTACTCAA
CTAAGAGGCCAGGAGAGCCAAAAGTATGCCCTCCGCAGTTTTCAAATGGCCCGGGTGATC
TTCAACCGGGACGGCTGCTCCGTCTTACAGAGGCATTCCAGGGACACCCACTTCTACCCA
CTGGAGGAAGGAAGTACATCTTTGGATGATGAAAAGCCAAACCCAGGACTGTCAAAGGAT
ATTACTCATTTCTCTTGCAGCAGAATGTAATGAAAGACCTGTAAGTGGTGCCGGGCGGT
GTGCAGGGTAGTAATGGAGGTGCTGTGCCATGACCAGCAGTGTTGGTGGCCACCCAGATC
CCCTAGGGTCTCTGGCCAGCTCTGTGTGCCAATCCCAATTAAGTGCTTTGAGGTTAAAG
GCTGGCACCTGTGACCTGGTATTGGAGCCAGTCAGCCCATATGGAGAGCCAGCAGGTCT
GGGAGTTCTCCGTCCTCTTGGCCAAGGCCGCTGACTGACTGGGCTACGAGTCAAAAGCCC
AGCTCCCTTGCCCAAGGAAGGACATTCTCTGAGGAGTAATTTATGCTCTAGCACTCCCT
TTCTCTAGATCGGCCTGAGGCTGGGACATTACATGAAATCACACCCTTGCTGGGCTTAA
TCCTTTCCCTACCCTCCATTTATTTACTGGTGTCTCTGGGAGCCTTTCTTAAATAAAC
CTCTTATATCTGAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
AAA
  
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Restriction Sites:	Please inquire
ACCN:	NM_152504


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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:	<u>NM_152504.2, NP_689717.2</u>
RefSeq Size:	1203 bp
RefSeq ORF:	618 bp
Locus ID:	149840
UniProt ID:	<u>Q8IYI0</u>
Cytogenetics:	20p12.3
Gene Summary:	Component of the shieldin complex, which plays an important role in repair of DNA double-stranded breaks (DSBs). During G1 and S phase of the cell cycle, the complex functions downstream of TP53BP1 to promote non-homologous end joining (NHEJ) and suppress DNA end resection. Mediates various NHEJ-dependent processes including immunoglobulin class-switch recombination, and fusion of unprotected telomeres.[UniProtKB/Swiss-Prot Function] Transcript Variant: This variant (2) lacks an exon in the 5' UTR compared to variant 1. Variants 1 and 2 encode isoform 1.