

Product datasheet for **SC100604**

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:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC100604 sequence for NM_152504 edited (data generated by NextGen Sequencing)

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ATGGCAGCCAGGGACGCCACTTCAGGCAGCCTGTCAGAGGAGAGCAGTGCTTTGGACCTG
CCATCAGCGTGTGACATAAGAGATTACGCCTGCAGGGACCCAGCCAAGAAGCCAACAGC
GAGGCTTTCAGTTCTTTGGAATTCCATTCTTTTCTTATTCTTCTGATGTGGATCCAGAC
ACCAGTAACTTAAATATAGAACAAAATAACTCCTGGACCGCTGAGAACTTCTGGCTTGAC
CCTGCTGTGAAAGGCCAGTCAGAGAAGGAAGAGGATGATGGCCTTCGGAAATCCCTGGAT
AGATTCTATGAAATGTTTGGCCATCCACAGCCAGGCTCTGCAAACCTCACTCTCTGCATCT
GTCTGCAAGTGCCTGTCTCAGAAAATCACTCAACTAAGAGGCCAGGAGAGCCAAAAGTAT
GCCCTCCGCAGTTTTCAAATGGCCCGGGTGATCTTCAACCGGGACGGCTGCTCCGTCTTA
CAGAGGCATTCCAGGGACACCCACTTCTACCCACTGGAGGAAGGAAGTACATCTTTGGAT
GATGAAAAGCCAAACCCAGGACTGTCAAAGGATATTACTATTTCTTCTTGCAGCAGAAT
GTAATGAAAGACCTGTAA

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Clone variation with respect to NM_152504.2
321 t=>c



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5' Read Nucleotide Sequence:	>OriGene 5' read for NM_152504 unedited GTGTCAACTTTTGTATACGACTCACTATAGGCGGCCGGAATTCGCACGAGGGTTTTCTG GAGTGTCTTTGGAGGAGAGGACTATGGCAGCCAGGGACGCCACTTCAGGCAGCCTGTCAGA GGAGAGCAGTGTCTTTGGACCTGCCATCAGCGTGTGACATAAGAGATTACGTCCTGCAGGG ACCCAGCAAGAAGCCAACAGCGAGGCTTTCAGTTCTTTGGAATCCATTCTTTTCCTTA TTCTTCTGATGTGGATCCAGACACCAGTAACTTAATATAGAACAAAATAACTCCTGGAC CGCTGAGAACTTCTGGCTTGACCCTGCTGTGAAAGGCCAGTCAGAGAAGGAAGAGGATGA TGGCCTTCGGAAAATCCCTGGATAGATTCTATGAAATGTTTGGCCATCCACAGCCAGGCTC TGCAAACTCACTCTCTGCATCTGTCTGCAAGTGCCTGTCTCAGAAAATCACTCAACTAAG AGGCCAGGAGAGCAAAAAGTATGCCCTCCGAGTTTTCAAATGGCCCGGGTGATCTTCAA CCGGGACGGTGTCCGTCTTACAGAGGCATTCCAGGGACACCCACTTCTACCCACTGGA GGAAGGAAGTACATCTTTGGATGATGAAAAGCCAAACCCAGGACTGTCAAAGGATATTAC TCATTTCTCTTGCAGCAGAATGTAATGAAAGACCTGTAAGTGGTCCCGGGTGGTGTGCA GGGTANTAATGGAGGTGCTGTGCCATGACCAGCAGTGTGGTGGCCACCCAGATCCCNCT AGGTCTCTGGCCAGCTCTGTGTGCCAATCCCATTAAGTGTNNTGAGTTAAAGGCTGGC ACCTGTGACCTGNTATTGGAGCCAGTCAGCCCATATGGAGAGCCAGCNAGGTCTGGGNAG TCTNCGTNCTCTTGGCCAAGGCCGCTGACTGACTGGGCTACGAGTCAAAAAN
Restriction Sites:	NotI-NotI
ACCN:	NM_152504
Insert Size:	3000 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).
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_152504.2 , NP_689717.2
RefSeq Size:	1203 bp
RefSeq ORF:	618 bp
Locus ID:	149840
UniProt ID:	Q8IYI0
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.