OriGene Technologies, Inc.
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

Product datasheet for RG207811

SHLD1 (NM_152504) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	TurboGFP
Symbol:	SHLD1
Synonyms:	C20orf196; RINN3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)

ORF Nucleotide Sequence:

>RG207811 representing NM_152504
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGCAGCCAGGGACGCCACTTCAGGCAGCCTGTCAGAGGAGAGCAGTGCTTTGGACCTGCCATCAGCGT
GTGACATAAGAGATTACGTCCTGCAGGGACCCAGCCAAGAAGCCAACAGCGAGGCTTTCAGTTCTTTGGA
ATTCCATTCTTTTCCTTATTCTTCTGATGTGGATCCAGACACCAGTAACTTAAATATAGAACAAAATAAC
TCCTGGACCGCTGAGAACTTCTGGCTTGACCCTGCTGTGAAAGGCCAGTCAGAGAAGGAAGAGGATGATG
GCCTTCGGAAATCCCTGGATAGATTCTATGAAATGTTTGGTCATCCACAGCCAGGCTCTGCAAACTCACT
CTCTGCATCTGTCTGCAAGTGCCTGTCTCAGAAAATCACTCAACTAAGAGGCCAGGAGAGCCAAAAGTAT
GCCCTCCGCAGTTTTCAAATGGCCCGGGTGATCTTCAACCGGGACGGCTGCTCCGTCTTACAGAGGCATT
CCAGGGACACCCACTTCTACCCACTGGAGGAAGGAAGTACATCTTTGGATGATGAAAAGCCAAACCCAGG
ACTGTCAAAGGATATTACTCATTTCCTCTTGCAGCAGAATGTAATGAAAGACCTG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG207811 representing NM_152504
Red=Cloning site Green=Tags(s)

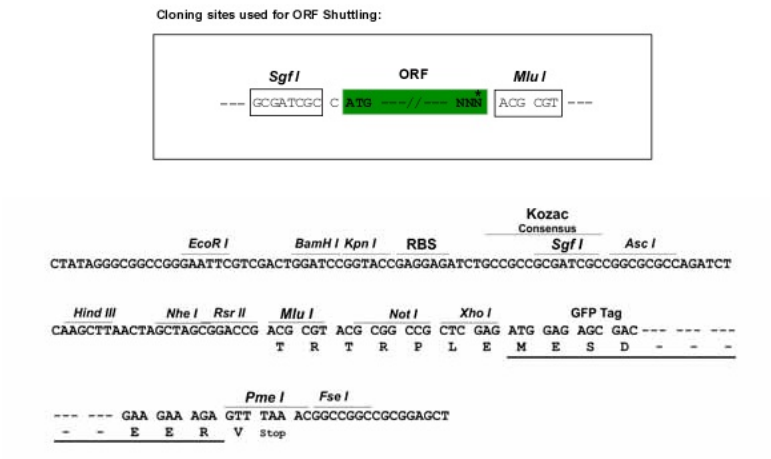
MAARDATSGSLSEESSALDLPSACDIRDYVLQGPSQEANSEAFSSLEFHSFPYSSDVDPDTSNLNIEQNN
SWTAENFWLDPAVKGQSEKEEDDGLRKSLDRFYEMFGHPQPGSANSLSASVCKCLSQKITQLRGQESQKY
ALRSFQMARVIFNRDGCSVLQRHSRDTHFYPLEEGSTSLDDEKPNPGLSKDITHFLLQQNVMKDL

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

View online »

Cloning Scheme:



ACCN: NM_152504

ORF Size: 615 bp

OTI Disclaimer: 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. More info

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: NM_152504.4

RefSeq Size: 1203 bp

RefSeq ORF: 618 bp

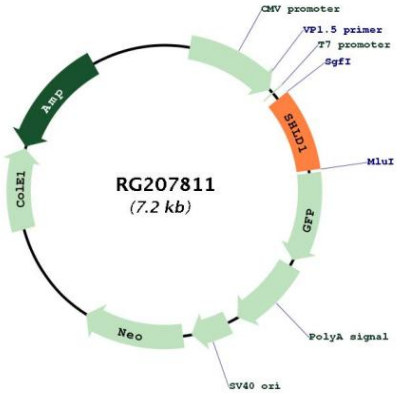
Locus ID: 149840

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]

Product images:



Circular map for RG207811