

Product datasheet for **RC239603**

SMARCA6 (HELLS) (NM_001289069) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SMARCA6 (HELLS) (NM_001289069) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	HELLS
Synonyms:	ICF4; LSH; Nbla10143; PASG; SMARCA6
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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**ORF Nucleotide
Sequence:**

>RC239603 representing NM_001289069
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGCCAGCGGAACGGCCCGGGCAGCGCGGCTCGGAGGCTCCAGCAATGGTTGAACAACCTGGACACTG
 CTGTGATTACCCCGCCATGCTAGAAGAGGAAGAACAGCTTGAAGCTGCTGGACTAGAGAGAGAGCGGAA
 GATGCTGGAAAAGGCTCGCATGTCTTGGGATAGAGAGTCGACAGAAATTCGGTACCGTAGACTTCAACAT
 TTGCTTGAAAAAAGCAATATATACTCCAATTTTTATTGACGAAAATGGAACAGCAACAATTAGAGGAAAC
 AGAAGAAGAAAAGAAAAATGGAGAGAAAAAGGAGTCTTTAAAAGTTAAAAAGGGTAAAAATTC AATTGA
 TGCAAGTGAAGAGAAGCCAGTTATGAGGAAAAAAGAGGAAGAGAAGTGAATCATACAATATTTTCAGAG
 GTCATGTCAAAGAGGAAATTTGTCTGTGGCTAAAAAATAAAAAGGAGAATGAGGATGAAAACCTCT
 CCTCTACTAATCTCTGTGTGGAAGATCTTCAGAAAAATAAAGATTCGAATAGTATAATTAAGATAGATT
 GTCTGAAACGGTTAGGCAGAATACTAAATCTTTTTTTGACCCAGTCCGGAAGTGAATGGTCAGCCAGTA
 CCTTTTCAACAACCAAAGCACTTCACTGGAGGAGTGATGCGATGGTACCAAGTAGAAGGCATGGAATGGC
 TTAGGATGCTTTGGGAAAATGGAATTAATGGCATTITAGCAGATGAAATGGGATTGGGTAAGACAGTTCA
 GTGCATTGCTACTATTGCATTGATGATTGAGAGAGGAGTACCAGGACCTTTTCTGTCTGTGGCCCTTTG
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 AAGTCTGATGTTGCTCTTGAAGTTCCTCTAAACGAGAAGTAGTCGTTTATGCTCCTTTCAAAGAAGC
 AGGAGATCTTTTATACAGCCATTGTGAACCGTACAATTGCAAACATGTTTGGATCCAGTGAGAAAAGAAAC
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 GATTTCCCTAATGAATTGGAAAACCTGATCAGTCAAATACAGCCAGAGGTGGACCGAGAAAAGAGCTGTTG
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 ATGTTGTAATCATCCATATTTGATTGAATATCCTATAGACCCTGTACACAAGAATTTAAGATCGATGAA
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 TTTCAACTTCAGCAGGCTTGATGGGTCCATGTCTTACTCAGAGAGAGAAAAAACAATGCACAGCTTCAAC
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 CGAAGTGATCTTATTGATCAAATGAATGCTTCAGGACCAATTAAGAGAAGATGGGGATTTCAAGATAT
 TAGAAAATTTGAAGATTCAGTCTGAATGTTTGT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC239603 representing NM_001289069
 Red=Cloning site Green=Tags(s)

MPAERPAGSGGSEAPAMVEQLDTAVITPAMLEEEEQLEAAGLERERKMLEKARMSWDRESTEIRYRRLQH
 LLEKSNIYSKFLLLTKMEQQLEEQKKKEKLERKKESLKVKKGKNSIDASEEKVPMRKKRGREDESYNISE
 VMSKEEILSVAKKNKKENEDENSSSTNLCEVDLQKNKDSNSIIKDRLSETVRQNTKFFFDPVKRCNGQPV
 PFQPKHFTGGVMRWYQVEGMEWLRMLWENGLADEMGLGKTVQCIATIALMIQRGVPFPFLVCGPL
 STLPNWMAEFKRFTPDIPMLYHGTQEERQKLHCYWKYLIVDEGHRIKMKRLIRELKRFNADNKLLLT
 GTPLQNNLSELWSLLNFLLPDVFDDLKSFESWFDITSLSETAEDIIAKEREQNVLHMLHQILTPFLLRRL
 KSDVALEVPPKREVVVYAPL SKKQEIFYTAIVNRTIANMFGSSEKETIELSPTGRPKRTRKSINYSKID
 DFPNELEKLISQIQPEVDRERAVVEVNIPIVESEVNLKLQNMMLLRKCCNHPYLIEYIPDPTQEFKIDE
 ELVTNSGKFLILDRMLPELKKRGHKVLLFSQMTSMLDILMDYCHLRDFNFSRLDGMSYSEREKNMHSFN
 TDPEVFI FLVSTRAGGLGINLTAADTVIIYSDWNPQSDLQAQDRCHRIGQTKPVVVYRLVTANTIDQKI
 VERAARAKRLEKLIHKNHFKGGQSGNL SKNFLDPKELMELLKSRDYEREIKGSREKVISDKDLELLLD
 RSDLIDQMNASGPIKEKMGIFKILENSEDSSPECLF

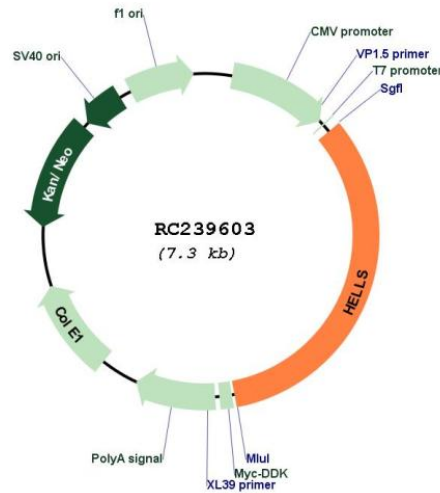
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:



Plasmid Map:


ACCN: NM_001289069

ORF Size: 2418 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.

RefSeq: [NM_001289069.2](#)

RefSeq Size: 3067 bp

RefSeq ORF: 2421 bp

Locus ID: 3070

UniProt ID: [Q9NRZ9](#)

Cytogenetics: 10q23.33

MW: 93.8 kDa

Gene Summary: This gene encodes a lymphoid-specific helicase. Other helicases function in processes involving DNA strand separation, including replication, repair, recombination, and transcription. This protein is thought to be involved with cellular proliferation and may play a role in leukemogenesis. Alternatively spliced transcript variants encoding different isoforms have been identified. [provided by RefSeq, Jan 2014]