

## Product datasheet for **RG239634**

### **SMARCA6 (HELLS) (NM\_001289068) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	SMARCA6 (HELLS) (NM_001289068) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	SMARCA6
Synonyms:	ICF4; LSH; Nbla10143; PASG; SMARCA6
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>RG239634 representing NM\_001289068.  
 Blue=ORF Red=Cloning site Green=Tag(s)

```
GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTGCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCACGATCGCC
ATGGTTGAACAACCTGGACACTGCTGTGATTACCCCGCCATGCTAGAAGAGGAAGAACAGCTTGAAGCT
GCTGGACTAGAGAGAGAGCGGAAGATGCTGAAAAAGGCTCGCATGTCTTGGGATAGAGAGTCGACAGAA
ATTCGGTACCGTAGACTTCAACATTTGCTTGAAAAAGCAATATATACTCCAATTTTTATTGACGAAA
ATGGAACAGCAACAATTAGAGGAACAGAAGAAGAAAAAATTGGAGAGAAAAAGGAGTCTTTAAAA
GTTAAAAAGGTAATAATTCAATTGATGCAAGTGAAGAGAAGCCAGTTATGAGGAAAAAGAGGAAGA
GAAGATGAATCATACAATATTTAGAGGTCATGTCAAAGAGGAAATTTGTCTGTGGCTAAAAAAAT
AAAAAGGAGAATGAGGATGAAAACCTCCTCTACTAATCTCTGTGTGGAAGATCTTCAGAAAAATAA
GATTCGAATAGTATAATTAAGATAGATTGTCTGAAACGGTTAGGCAGAATACTAAATCTTTTTGAC
CCAGTCCGGAAGTGAATGGTCAGCCAGTACCTTTTCAACAACCAAGCACTTCACTGGAGGAGTGATG
CGATGGTACCAAGTAGAAGGCATGGAATGGCTTAGGATGCTTTGGGAAAAATGGAATTAATGGCATTTTA
GCAGATGAAATGGGATTGGGTAAGACAGTTCAGTGCATTGCTACTATTGCATTGATGATTAGAGAGGA
GTACCAGGACCTTTTCTGTCTGTGGCCCTTTGTCTACACTTCCTAACTGGATGGCTGAATTCAAAAGA
TTTACACCAGATATCCCTACAATGTTATATCATGGAACCCAGGAGGAACGTCAAAAATGGTAAGAAAT
ATTTACAAACGGAAAGGGACTTTGCAGATTATCCTGTGGTAATCACGTCATTTGAAATAGCCATGAGA
GACCGAAATGCGTTACAGCATTGCTATTGGAAACTTAATAGTAGAGTAAGGACACAGGATTAAGAAAT
ATGAAGTGCCGCTAATCAGGGAGTTAAACGATTCAATGCTGATAACAACTCTTTTGACTGGTACT
CCCTTGCAAAAACAATTTATCAGAACTTTGGTCATTGCTAACTTTTTGTTGCCAGATGATTTGATGAC
TTGAAAAGCTTTGAGTCTTGGTTTGACATCACTAGTCTTTCTGAAACTGCTGAAGATATTATTGCTAAA
GAAAGAGAACAGAATGTATTGCATATGCTGCACCAGATTTTAAACCTTTCTTATTGAGAAGACTGAAG
TCTGATGTTGCTCTTGAAGTTCTCCTAAACGAGAAGTAGTCGTTTATGCTCCACTTTCAAAGAAGCAG
GAGATCTTTTATACAGCCATTGTGAACCGTACAATTGCAAACATGTTTGGATCCAGTGAGAAAGAAACA
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GATTTCCCTAATGAATTGGAAAACTGATCAGTCAAATACAGCCAGAGGTGGACCGAGAAAGAGCTGTT
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GGTCACAAGGTGCTGCTTTTTTCAAAATGACAAGCATGTTGGACATTTTGATGGATTACTGCCATCTC
AGAGATTTCAACTTCAGCAGGCTTGATGGGTCCATGTCTTACTCAGAGAGAGAAAAAAACATGCACAGC
TTCAACACGGATCCAGAGGTGTTATCTTCTTAGTGAGTACACGAGCTGGTGGCCTGGGCATTAATCTG
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AGATGTCATAGAATTGGTCAGACAAAGCCAGTTGTTGTTATCGCCTTGTACAGCAAATACTATCGAT
CAGAAAATTGTGGAAGAGCAGCTGCTAAAAGGAACTGGAAAAGTTGATCATCCATAAAATCATTTT
AAAGTGGTCAGTCTGGATTAATCTGTCTAAGAATTTCTTAGATCCTAAGGAATTAATGGAATTATTA
AAATCTAGAGATTATGAAAGGAAATAAAAGGATCAAGAGAGAAGTTCATTAGTATAAAGATCTAGAG
TTGTTGTTAGATCGAAGTGATCTTATTGATCAAATGAATGCTTCAGGACCAATTAAGAGAAAGATGGGG
ATATTCAGATATTAGAAAATCTGAAGATTCAGTCCTGAATGTTTGT
ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAAAC
```

**Protein Sequence:** >Peptide sequence encoded by RG239634  
 Blue=ORF Red=Cloning site Green=Tag(s)

```

MVEQLDTAVITPAMLEEEQLEAAGLERERKMLEKARMSWDRESTEIRYRRLQHLLKSNISKFLTK
MEQQQLEEQKKKEKLERKKEKSLKVKKGKNSIDASEEKPVMRKKRGREDESYNISEVMSKEEILSVAKKN
KKENEDENSSTNLCVEDLQKNKDSNSIIKDRLSETRQNTKFFDPVRKCNQGPVFPQPKHFTGGVM
RWYQVEGMEWLRMLWENGINGLADEMGLGKTVCQIATIALMIQRGVPGPFLVCGPLSTLPNWMAEFKR
FTPDIPTMLYHGTQEERQKLVNIIYKRKGTLQIHPVVITSFEIAMRDRNALQHCYWKYLIVDEGHRKN
MKCRLIRELKRFNADNKLLLGTPLQNNLSELWLLNLLPDVFDLKSFEWFDITSLSETAEDIK
EREQNVLHMLHQILTPFLLRRLKSDVALEVPPKREVVVYAPLSKKQEIFYTAIVNRTIANMFGSSEKET
IELSPTGRPKRRTRKSINYSKIDDFPNELEKLSIQIQPEVDRERAVVEVNIPEVEVNLKLQNMMLLR
KCCNHPYLIEYPIDPVTQEFKIDEELVTNSGKFLILDRMLPELKKRGHKVLLFSQMTSMLDILMDYCHL
RDFNFSRLDGSMSYSEREKNMHSFNTDPEVFIPLVSTRAGGLGINLTAADTVIIYDSDWNPQSDLQAQD
RCHRIGQTKPVVYRLVTANTIDQKIVERAAAKRLEKLIHKNHFKGGQSGNLNLSKNFLDPKELMELL
KSRDYEREIKSREKVISDKLELLLDRLDIDQMNASGPIKEKMGIFKILENSEDSSPECLF
TRTRPLEMESDESGLPAMEIECRITGTLNGVEFELVGGGEGTPEQGRMTNKMKSTKGALTFSPYLLSHV
MGYGFYHFGTYPSTYENPFLHAINNGGYTNRIEKYEDGGVLHVSFSYRYEAGRVIGDFKVMGTGFPEP
SVIFTDKIIIRSNATVEHLHPMGDNDLDGSFTRTFSLRDGGYSSVVDSMHFKSAIHPSILQNGGPMFA
FRRVEEDHSNTELGIVEYQHAFKTPDADAGEERV
  
```

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**


**ACCN:** NM\_001289068

**ORF Size:** 2466 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).

**RefSeq:** [NM\\_001289068.2](#)

RefSeq Size: 3118 bp

RefSeq ORF: 2469 bp

Locus ID: 3070

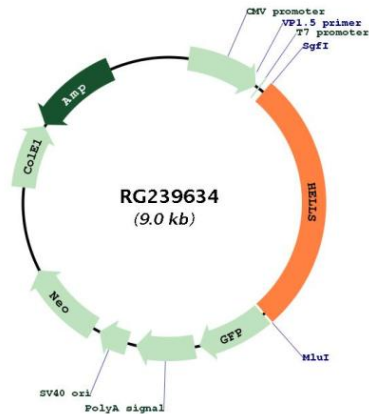
UniProt ID: [Q9NRZ9](#)

Cytogenetics: 10q23.33

MW: 96.1 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]

**Product images:**



Circular map for RG239634