

Product datasheet for **SC318461**

SMARCA1 (NM_139035) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SMARCA1 (NM_139035) Human Untagged Clone
Tag:	Tag Free
Symbol:	SMARCA1
Synonyms:	ISWI; NURF140; SNF2L; SNF2L1; SNF2LB; SNF2LT; SWI; SWI2
Vector:	<u>pCMV6 series</u>
Fully Sequenced ORF:	>NCBI ORF sequence for NM_139035, the custom clone sequence may differ by one or more nucleotides

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ATGGAGCAGGACACTGCCGACGTGGCAGCCACCGTGGCAGCCGCGGATGCGACCGCCACT
ATCGTGGTCATAGAGGACGAGCAGCCCGGGCCGTCCACCTCTCAGGAGGAGGGAGCGGCC
GCCGCGGCCACCGAAGCCACCGCGGCCACGAGAAAGGGCGAGAAGAAGAAGGAGAAAAAC
GTTTCTTCATTTCAACTCAAACCTGCTGCTAAAGCGCCTAAATCTGAAAAGGAAATGGAC
CCAGAATATGAAGAGAAAATGAAAGCCGACCGAGCAAAGAGATTTGAATTTTTACTGAAG
CAGACAGAACTTTTTGCACATTTTATTGACCTTTCAGCACAGAAATCTCCAACATCTCCA
CTGAACATGAAATTTGGGACGTCCCGAATAAAGAAAGATGAAAAGCAGAGCTTAATTTCT
GCTGGAGACTACCGCCATAGGCGCACAGAGCAAGAAGAAGATGAAGAGCTACTGTCTGAG
AGTCGGAAAACATCTAATGTGTGTATTAGATTTGAGGTGTCACCTTCATATGTGAAAAGGG
GGGCCACTGAGAGATTATCAGATTTCGAGGACTGAATTGGTTGATCTCTTTATATGAAAAT
GGAGTCAATGGCATTGTTGGCTGATGAAATGGGCCTTGGGAAAACCTTACAAAACATTTGCT
TTGCTTGGTTACCTGAAACACTACCGAAATATTCTGGACCTCACATGGTTTTAGTTCCA
AAGTCTACTTTACACAACCTGGATGAATGAATTTAAACGATGGGTCCCATCTCTCCGTGTC
ATTTGTTTTGTCGAGACAAGGATGCCAGAGCTGCTTTTATTCGTGATGAAATGATGCCA
GGAGAGTGGGATGTTTGGCTTACTTCTTATGAGATGGTAATTAAGAAAAATCTGTATTC
AAAAAGTTTTCACTGGCGATACCTGGTCATTGATGAAGCTCACAGAATAAAGAATGAAAAA
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ACACCTTTGCAGAATAACCTGCATGAACTGTGGCCTTACTCAACTTTTTATTGCCTGAT
GTCTTTAATTCTGCAGATGACTTTGATTCTTGGTTTGACACTAAAAATTGCTTGGTGAT
CAAAAACCTCGTGGAAAGACTTTCATGCAGTTTTAAACCATTTTTGTTACGCCGTAAAAA
ACTGATGTAGAGAAGAGTCTGCCACCTAAAAAGGAAATAAAGATTTACTTGGGGCTGAGT
AAGATGCAACGAGAATGGTATACAAAAATCCTGATGAAAGATATTGATGTTTTAACTCT
TCTGGCAAGATGGACAAGATGCGACTCTTAAACATTCTGATGCAGCTTCGAAAGTGTGT
AATCATCCATATCTGTTTATGATGGTGTGAACTGGTCCACCTTATACCACTGATGAGCAT
ATTGTCAGCAACAGTGGTAAAATGGTAGTTCTGGATAAACTATTGGCCAACTCAAAGAA
CAGGGTTCAAGGGTTCTCATTTTCAGCCAGATGACTCGCTTGCTGGATATTTTGGAGAT
TATTGCATGTGGCGTGGTTATGAGTATTGTCGACTGGATGGACAAACCCCGCATGAAGAA
AGAGAGGAAGCAATAGAGGCTTTAATGCTCCTAATAGTAGCAAATTCATCTTTATGCTA
AGTACCAGGGCTGGAGGTCTCGGAATTAACCTGGCAAGTGTGATGTGTTTACTATAT

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GATTCAGACTGGAACCCACAGGTTGATCTACAAGCTATGGATCGAGCACATCGTATTGGT
 CAGAAGAAACAGTACGTGATTCCGTCTCATCACTGACAACACTGTTGAAGAGAGGATT
 GTAGAAAGAGCTGAGATAAACTGAGACTCGATTCAATTGTTATACAACAAGGAAGACTC
 ATTGACCAACAGTCTAACAAAGCTGGCAAAAGAGGAAATGTTACAAATGATACGGCATGGA
 GCCACCCATGTTTTGCTTCTAAAGAGAGTGAGTTGACAGATGAAGACATTACAATATT
 CTGGAAGAGGGGAAAAGAAGACTGCAGAGATGAATGAACGCCTGCAAAAAATGGGAGAG
 TCTTCTTAAGAAATTTTAGAATGGACATTGAACAAAGTTTATACAATTTGAGGGAGAA
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 CGCAAAGCAAACACTACGCAGTGGATGCCTACTTTAGAGAGGCTTTGCGTGTGAGCGAGCCA
 AAGATTCCAAAGGCTCCACGGCCTCCAAAACAGCCAAATGTTTCAGGATTTTCAATTTTTTC
 CCACCACGCTTATTTGAGCTCCTGGAAAAGGAAATTTCTTTATTATCGGAAGACAATAGGC
 TATAAGGTTCCAAGGAATCCTGATATCCCAAATCCAGCTCTGGCTCAAAGAGAAGAGCAA
 AAAAAGATTGATGGAGCTGAACCTTTACACCAGAAGAGACTGAAGAAAAGGAAAAACTT
 CTCACACAAGGTTTCACAACTGGACTAAACGAGATTTTAAACAGTTTATTAAGCTAAT
 GAGAAATATGGAAGAGATGACATTGATAACATAGCTCGAGAGGTAGAGGGCAAATCCCCT
 GAGGAGGTGATGGAGATTTCAGCTGATTTTGGGAACGTTGCAATGAATTACAGGACATT
 GAGAAAATTATGGCTCAAATTGAACGTGGAGAAGCAAGAATTCACGAAGGATCAGTATC
 AAGAAAGCCCTGGATGCCAAAATTGCAAGATACAAGGCTCCATTTTCATCAGTTGCGCATT
 CAGTATGGAACCAGCAAAGGAAAGAAGCTACTGAGGAAGAAGATAGATTCTTGATTTGT
 ATGTTACACAAAATGGGCTTTGATAGAGAAAATGTATATGAAGAATTAAGACAGTGTGTA
 CGAAATGCTCCCCAGTTTAGATTTGACTGGTTTATCAAGTCTAGGACTGCCATGGAATTC
 CAGAGACGCTGTAACTCTGATTTTCATTGATTGAGAAAAGAAAATATGGAATTTGAGGAA
 AGAGAGAGAGCAGAAAAGAAGAAACGGGCAACTAAAACCTCAATGGTAAAATTTTCAGCA
 TTTTCC

- Restriction Sites:** Please inquire
- ACCN:** NM_139035
- 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:** [NM_139035.2](#), [NP_620604.2](#)
- RefSeq Size:** 4066 bp

RefSeq ORF: 3129 bp

Locus ID: 6594

Cytogenetics: Xq25-q26.1

Domains: SNF2_N, myb_DNA-binding, DEAD, helicase_C

Protein Families: Transcription Factors

Gene Summary: This gene encodes a member of the SWI/SNF family of proteins. The encoded protein is an ATPase which is expressed in diverse tissues and contributes to the chromatin remodeling complex that is involved in transcription. The protein may also play a role in DNA damage, growth inhibition and apoptosis of cancer cells. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Sep 2013]

Transcript Variant: This variant (2) lacks an internal coding exon, as compared to transcript variant 1. The resulting isoform b lacks an internal segment, as compared to isoform a.