

Product datasheet for **RC203775**

SNF2H (SMARCA5) (NM_003601) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	Myc-DDK
Symbol:	SNF2H
Synonyms:	hISWI; hSNF2H; ISWI; SNF2H; WCRF135
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC203775 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGTCGTCGCGGCCGAGCCTCCGCCACCCCGCCTCCCGAGAGCGCGCCTTCCAAGCCCGCAGCCTCGA
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GAGACAAGACTCCATCAATGCATACAATGAACCAACAGCACAAAGTTTGTTCATGTTAAGCACGCGT
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TGGATTACAAGGATGACGACGATAAGGTTAA

Protein Sequence:

>RC203775 protein sequence
Red=Cloning site Green=Tags(s)

MSSAAEPPPPPPESAPSKPAASIASGGSNSSNKGPEGVAAQAVASAASAGPADAEMEEIFDDASPGKQ
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KTLQTIISLLGYMKHYRNIPGPHMVLVPKSTLHNWMSEFKRWVPTLRVCLIGDKEQRAAFVRDVLPGEW
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VIQQGRLVDQNLNKIGKDEMLQIRHGATHVFASKESIITDEDIDGILERGAKKTAEMNEKLSKMGESSL
RNFTMDTESSVYNFEGEDYREKQKIAFTIEWIEPPKREKANYAVDAYFREARLVSEPKAPKAPRPPKQPN
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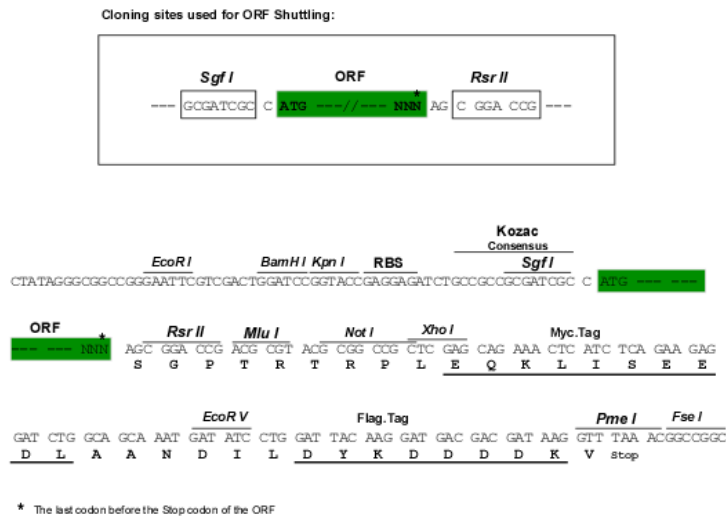
SGPTRRPLQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mk6188_f07.zip

Restriction Sites:

SgfI-RsrII

Cloning Scheme:


ACCN: NM_003601

ORF Size: 3156 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_003601.3](#)

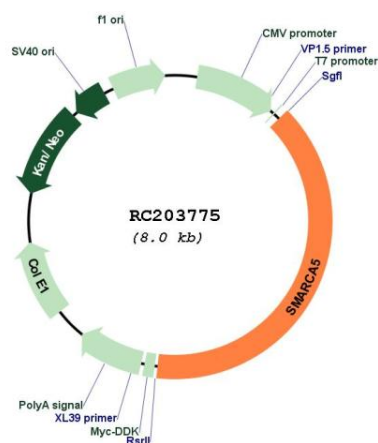
RefSeq Size: 7926 bp

RefSeq ORF: 3159 bp

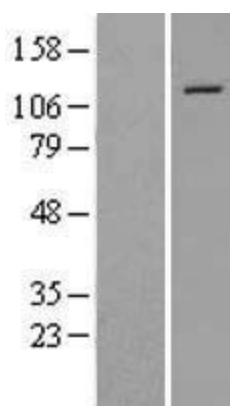
Locus ID: 8467
UniProt ID: [O60264](#)
Cytogenetics: 4q31.21
Domains: SNF2_N, myb_DNA-binding, DEAD, helicase_C
Protein Families: Transcription Factors
MW: 121.9 kDa
Gene Summary:

The protein encoded by this gene is a member of the SWI/SNF family of proteins. Members of this family have helicase and ATPase activities and are thought to regulate transcription of certain genes by altering the chromatin structure around those genes. The protein encoded by this gene is a component of the chromatin remodeling and spacing factor RSF, a facilitator of the transcription of class II genes by RNA polymerase II. The encoded protein is similar in sequence to the Drosophila ISWI chromatin remodeling protein. [provided by RefSeq, Jul 2008]

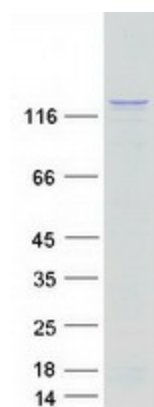
Product images:



Circular map for RC203775



Western blot validation of overexpression lysate (Cat# [LY401193]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC203775 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified SMARCA5 protein (Cat# [TP303775]). The protein was produced from HEK293T cells transfected with SMARCA5 cDNA clone (Cat# RC203775) using MegaTran 2.0 (Cat# [TT210002]).