

Product datasheet for **RG214286**

SMARCD2 (NM_001098426) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	TurboGFP
Symbol:	SMARCD2
Synonyms:	BAF60B; CRACD2; PRO2451; Rsc6p; SGD2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



ORF Nucleotide Sequence: >RG214286 representing NM_001098426
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCGCGATCGCC

ATGTCGGGCGGAGGCGCGGGCGGTTCCCGCTGCCCCGCTAAGCCCTGGCGGCGCGCGGTGGCTGCGG
 CCCTGGGAGCGCCGCTCCCCCGCGGGACCCGGCATGCTGCCCGGACCGCGCTCCGGGGACCGGGTCC
 GGCAGGAGCGTGGGGGGCCCCGGGGCGCCGCTTCCGCCCATGGGCCCCGGGGCCCCGCGCGCAG
 TACCAGCGACTGGCATGTCAACAGGAACCGGATGCCATGGCTGGCTGTCAGGTGGGACCCCTGCTG
 GCTCCCCATTTGGTGCAGCAGCTCCGCTTCGACCTGGCATGCCACCCACCATGATGGATCCATTCGAAA
 ACGCCTGCTTGTGCCCCAGGCGCAGCCTCCCATGCCTGCCAGCGCCGGGGTTAAAGAGGAGGAAGATG
 GCAGATAAGGTTTCTACCTCAGCAATCCGGGAGCTTGTCCAGAGTCTCAGGCGTACATGGATCTCTTG
 CTTTGTAGCGGAAGCTGGACCAGACATTGCTCGCAAGCGGATGGAGATCCAGGAGGCCATCAAAAGCC
 TCTGACACAAAAGCGAAAGCTTCGGATCTACATTTCCAATACGTTCACTCCAGCAAGCGGAAGGCGAT
 AGTGCAGGAACTGCAGGACCCCTGGGGGAACCCAGCAGGGGACAAGGTGGCTTCTGGGAACTCCGAG
 TGGAAGGAAAACCTGCTGGATGATCCTAGCAAAACAGAAGAGGAAGTTTTCTTATTCTTTAAGAGCCTCGT
 CATTGAGCTGGACAAGGAGCTGTACGGCCTGACAATCACCTGGTGGAGTGGCACCGGATGCCACCACC
 CAGGAGACAGATGGCTTCCAAGTAAACGGCCTGGAGACCTCAACGTCAAGTGCACCTCCTGCTCATGC
 TGGATCATCAGCCTCCCAAGTACAAATTGACCCCGATTGGCAAGGCTGCTGGGAGTGCACACGCAGAC
 GAGGGCCGCCATCATGCAGGCCTGTGGCTTTACATCAAGCACAACAGCTGCAGGATGGGACGAGCGG
 GAGTACATCAACTGCAACCGTTACTTCCGCCAGATCTTCAGTTGTGGCCGACTCCGTTTCTCCGAGATTC
 CCATGAAGCTGGCAGGTTGTGTCAGCATCCAGACCCATTGTCATCAACCATGTCATTAGTGTGACCC
 TAACGACCAGAAGAAGACAGCCTGTTACGACATCGATGTGGAGGTGGACGACCACTGAAGGCCAAATG
 AGCAATTTTCTGGCCTCTACCACCAATCAGCAGGAGATCGCCTCCCTTGATGTCAAGATCCATGAGACCA
 TTGAGTCCATCAACAGCTGAAGACCCAGAGAGATTTATGCTCAGTTTTCAGCCGACCCCGAGACTT
 CATCCAGGAATGGCTCCGTTCCAGCGCCGAGACCTCAAGATCATCACTGATGTGATTGGAATCCTGAG
 GAGGAGAGCAGAGCTGCTTTCTACCACCGCCCTGGGCCAGGAAGCAGTAGGCAGGCACATCTTTGCCA
 AGGTGCAGCAGCAAGGCAGGAACCTGGAACAGGTGCTGGGAATTCGCTGACC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTAA

Protein Sequence: >RG214286 representing NM_001098426
 Red=Cloning site Green=Tags(s)

MSGRGAGGFPLPPLSPGGGAVAAALGAPPPAGPGMLPGPALRGPGPAGGVGGPGAAAFRPMGPAGPAAQ
 YQRPMSPGNRMPMAGLQVGPAGSPFGAAAPLRPGMPPTMMDPFRKRLVLPQAQPPMPAQRRGLKRRKM
 ADKVLPRQIRELVPESQAYMDLLAFERKLDQTIARKRMEIQEAIKKPLTQKRKLRIYISNTFSPSKAEGD
 SAGTAGTPGGTPAGDKVASWELRVEGKLLDDPSKQKRKSSFFKSLVIELDKELYGPDNHLVEWHMPPT
 QETDGFQVCRPGLNVKCTLLMLDHQPPQYKLDPRLARLLGVHTQTRAAIMQALWLYIKHNQLQDQHER
 EYINCNRFRQIFSCGRLRFSEIPMKLAGLLQHPDPIVINHVISVDPNDQKKTACYDIDVEVDDPLKAQM
 SNFLASTTNQEIASLDVKIHETIESINLKTQRDFMLSFSTDPQDFIQEWLRSQRRDLKIITDVIGNPE
 EERRAAFYHQPWAEAVGRHIFAKVQRRQELEQVLGIRLT

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001098426

ORF Size: 1593 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.

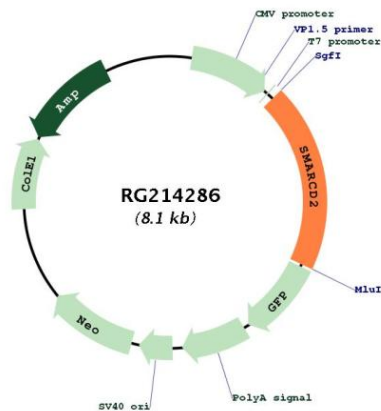
Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_001098426.2](#)

RefSeq Size: 2770 bp

RefSeq ORF:	1596 bp
Locus ID:	6603
UniProt ID:	Q92925
Cytogenetics:	17q23.3
Protein Families:	Transcription Factors
Gene Summary:	The protein encoded by this gene is a member of the SWI/SNF family of proteins, whose members display helicase and ATPase activities and which are thought to regulate transcription of certain genes by altering the chromatin structure around those genes. The encoded protein is part of the large ATP-dependent chromatin remodeling complex SNF/SWI and has sequence similarity to the yeast Swp73 protein. Alternatively spliced transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RG214286