

Product datasheet for **RG205933**

SMYD3 (NM_022743) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SMYD3 (NM_022743) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	SMYD3
Synonyms:	bA74P14.1; KMT3E; ZMYND1; ZNFN3A1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG205933 representing NM_022743 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGC**

ATGCGATGCTCTCAGTGCCGCTCGCCAAATACTGTAGTGCTAAGTGTCAGAAAAAGCTTGCCAGACC
ACAAGCGGAATGCAATGCCTTAAAGCTGCAAAACCCAGATATCCTCCAGACTCCGTTTCGACTTCTTG
CAGAGTTGTCTTCAAACCTATGGATGGAGCACCTTCAGAAATCAGAGAAGCTTTACTCATTTTATGATCTG
GAGTCAAATATTAACAACTGACTGAAGATAAGAAAGAGGGCCTCAGGCAACTCGTAATGACATTTCAAC
ATTTTCATGAGAGAAGAAATACAGGATGCCTCTCAGCTGCCACCTGCCTTTGACCTTTTGAAGCCTTTGC
AAAAGTGATCTGCAACTCTTTCACCATCTGTAATGCGGAGATGCAGGAAGTTGGTGTGGCCTATATCCC
AGTATCTCTTTGCTCAATCACAGCTGTGACCCCACTGTTTCGATTGTGTTCAATGGGCCCCACCTTTAC
TGCGAGCAGTCCGAGACATCGAGGTGGGAGAGGAGCTCACCATCTGCTACCTGGATATGCTGATGACCAG
TGAGGAGCGCCGGAAGCAGCTGAGGGACCACTGCTTTGAATGTGACTGTTTCCGTTGCCAAACCCAG
GACAAGGATGCTGATATGCTAACTGGTGATGAGCAAGTATGGAAGGAAGTTCAAGAATCCCTGAAAAA
TTGAAGAACTGAAGGCACACTGGAAGTGGGAGCAGGTTCTGGCCATGTGCCAGGCAATCATAAGCAGCA
TTCTGAACGGCTTCCCGATATCAACATCTACCAGCTGAAGGTGCTCGACTGCGCCATGGATGCCTGCATC
AACCTCGGCCTGTTGGAGGAAGCCTTGTCTATGTTACTCGGACCATGGAGCCATACAGGATTTTTTCC
CAGGAAGCCATCCGTCAGAGGGGTTCAAGTGATGAAAGTTGGCAAACTGCAGCTACATCAAGGCATGTT
TCCCCAAGCAATGAAGAATCTGAGACTGGCTTTTGATATTATGAGAGTGACACATGGCAGAGAACACAGC
CTGATTGAAGATTTGATTCTACTTTTAGAAGAATGCGACGCCAACATCAGAGCATCC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG205933 representing NM_022743
 Red=Cloning site Green=Tags(s)

MRC SQCRVAKYCSAKCQKKAWPDHKRECKCLKSCKPRYPDPDSVRLGRVVFKLMDGAPSESEKLYSFYDL
 ESNINKLTEDKKEGLRQLVMTFQHFMR EIQDASQLPPAFDLFEAFKVICNSFTICNAEMQEVGVGLYP
 SISLLNHSCDPNCSIVFNGPHLLLRAVRDIEVGEELTICYL DMLMTSEERRKQLRDQYCFECDCFR CQTQ
 DKDADMLTGDEQVWKEVQESLKKIEELKAHWKWEQVLAMCQAIISNSERLPDINIYQLKVLDCAMDACI
 NLGLLEEALFYGTRTMEPYRIFFPGSHPV RGVQVMKVGKQLQLHQGMFPQAMKNLRLAFDIMRVTHGREHS
 LIEDLILLEECDANIRAS

TRTRPLE – GFP Tag – V

Restriction Sites:

SgfI-MluI

Cloning Scheme:



ACCN: NM_022743

ORF Size: 1107 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_022743.2](#)

RefSeq Size: 1469 bp

RefSeq ORF: 1110 bp

Locus ID: 64754

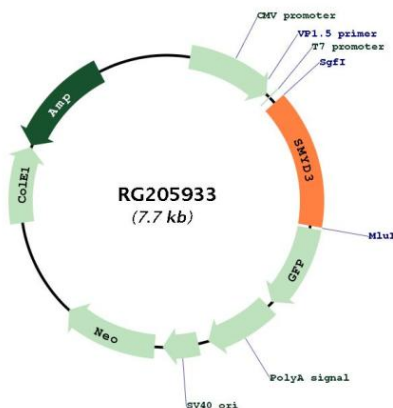
UniProt ID: [Q9H7B4](#)

Cytogenetics: 1q44

Domains: SET, zf-MYND

Gene Summary: This gene encodes a histone methyltransferase which functions in RNA polymerase II complexes by an interaction with a specific RNA helicase. Multiple transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Dec 2011]

Product images:



Circular map for RG205933