

## Product datasheet for **RG207305**

### **SMYD4 (NM\_052928) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	SMYD4 (NM_052928) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	SMYD4
Synonyms:	ZMYND21
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide  
Sequence:**

>RG207305 representing NM\_052928  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGC**

ATGGATCTGCCTGTGGATGAGTGGAATCATATCTGCTTCAAAAGTGGGCTTCACTCCCGACGTCTGTT  
 AGGTCACAATTTCTACAGCAGAGACCTTGAGGGATATCTTTCTTCACTCCTTCACTTCTTCAACCTGA  
 GGATGAGCTGTTTCTAAAAAGACTTTCTAAAGGTTACTTGGTGGGAAAGGACTCGGACGCTCCTCTTTTC  
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 GAGTGTCACATTCAAGGCCTAACACTGAGGACATGTCACTGTGTCATGCTAACCGCTCGGACGCCCTCTT  
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 AGACCATCAGTGATCTTGAAAGGAATTCACAGCCACACCAGCCCTAGCAGATGTCCTCCCTCAGACTCT  
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 GGCCAGATCTTTTCAACGGGTTTGAGTACCCGAAGCCCTGAGCACAATACAGAAAGCTGAGGAGGTT  
 CTGTCGCTGCACTGTGGCCATGGGACGATGAAATCCAGGAGCTCCAGAAGATGAAATCCTGTTTGTGG  
 ACTTACCACCCACCCCTGTAGGGCTGCATTG

**ACGCGT**ACGCGGCCGCTCGAG – GFP Tag – GTTTAA

**Protein Sequence:**

>RG207305 representing NM\_052928  
 Red=Cloning site Green=Tags(s)

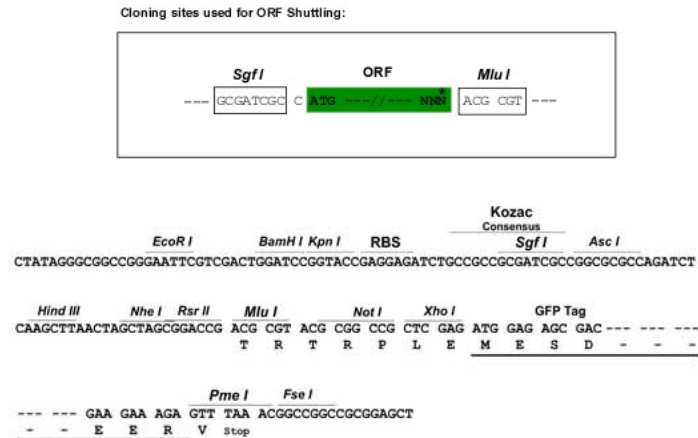
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 LQPKIMLRKAEC LVALGR LQEASQTISDLERNFTATPALADVLPQTLQRNLHRLKMKMQEKDSL TESFPA  
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 IADGLARACAALGDWQKSATHLQRSLCVVEVRHGPSSVEMGHELFKLAQIFFNGFAVPEALSTIQKAEV  
 LSLHCGPWDEIQELQKMKSCLLDLPPTPVGPAL

TRTRPLE – GFP Tag – V

**Restriction Sites:**

Sgfi-MluI

## Cloning Scheme:



ACCN:	NM_052928
ORF Size:	2412 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. <a href="#">More info</a>
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.

**RefSeq:** [NM\\_052928.1](#), [NP\\_443160.1](#)

**RefSeq Size:** 4269 bp

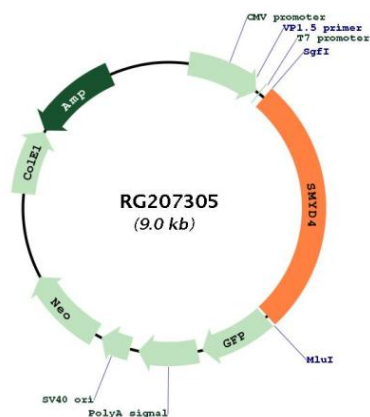
**RefSeq ORF:** 2415 bp

**Locus ID:** 114826

**UniProt ID:** [Q8IYR2](#)

**Cytogenetics:** 17p13.3

## Product images:



Circular map for RG207305