

## Product datasheet for **RG209060**

### SCML2 (NM\_006089) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	SCML2 (NM_006089) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	SCML2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>RG209060 representing NM\_006089  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTGCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGGACAAACAGTGAATGAAGATTCCATGGATGTCAAGAAGGAGAATCAAGAGAAAACCTCCTCAGTCAA  
 GTACATCTTCTGTACAAAGGGATGATTTCCACTGGGAGGAGATTTGAAAGAGACTGGGTCTATAAGTGC  
 TCCTTCAGAGTGCCTCCGTCAGTCTCAGATTCCACCTGTGAATGATTTCAAAGTTGGTATGAAATTGGAA  
 GCCCGTGACCCTCGCAATGCCACTTCAGTATGTATTGCTACGGTATTGGAATTACTGGGGCCAGGTTAC  
 GGTTACGACTGGATGGTAGTGACAACAGAAATGATTTTTGGAGGCTTGTGCGATCCCCAGATATAACAAC  
 TGTTGGGACATGTAAAAGGAAGGAGACTTACTCAACCTCCACTAGGGTACCAGATGAATACATCTCC  
 TGGCCGATGTTCCCTTAAAGACACTAAATGGGTCTGAAATGGCATCTGCCACATATTTAAGAAGGAAC  
 CACCAAAGCCCCACTAAATAATTTAAAGTGGGGATGAAACTGGAAGCTATTGACAAAAAGAACCCGTA  
 TCTCATCTGTCTCGCACCATTGGAGATGTTAAAGGGGATGAAGTTCATATCACATTTGATGGCTGGAGT  
 GGAGCTTTTGATTACTGGTGCAAGTATGATTCTCGAGATATTTCCAGCTGGGTGGTGTGCGCTGACAG  
 GAGATGTATTACAACCCCGAGGAAGTAGTTCCTATTGTAAGAATATAGCAAAAAACAGAGTCTTCTCC  
 TTCCGAAGCAAGCCAGCATTCAATGCAGTCTCCACAGAAAACCTACTCTAATATTACCAACACAGCAGGTC  
 AGGAGATCAAGTCGAATTAACCCACTGGACCTACTGCAGTCCCCAAAAGGAGCAGTTCTGTTAAAAATA  
 TCACACCAAGGAAAAAAGGTCCAACTCAGGAAAAAAGGAAAAACCTTTGCCCGTGATATGTTCTACATC  
 TGCAGCTTCTCTAAAATCGCTGACCAGAGACCGTGGCATGTTATATAAGATGTCGCTTCTGGGCCATGT  
 AAAATAGTGATGTCTACAGTCTGTGTCTATGTAACAAACATGGAACCTTTGGCCCTCATCTGGATCCCA  
 AGAGAATCCAGCAGCTGCCTGACCCTTCGGCCCGGGCCGGTGAATGTGGTGCTTCGCCGGATTGTGCA  
 GGCTGTGTGGATTGTGCCCTTGAACCTAAACTGTTTTTGGATACCTGAAGCCAGATAATCGTGGAGGA  
 GAAGTGATAACTGCCTCCTTTGATGGGAACTCATTCCATCCAGCTCCCTCCAGTGAACAGTGCATCAT  
 TTGCTCTTCGCTTTCTTGAGAACTTCTGCCACAGTCTGCAGTGTGATAACCTTTTGAGTAGCCAGCCTTT  
 TAGTTCTTCCAGGGTCACTACTCACAGTCTGCAGAGCATGATAAAAAATCAGTCAGCAAAAAGAAGATGTA  
 ACAGAAAGGCAAAGCACCAACGATCTCCTCAGCAAACTGTACCATATGTTGTTCTCTCTCTCCTAAGC  
 TCCCCAAAACAAGGAGTATGCGTCTGAAGGAGAACCATTGTTTGGCTGGGGGAAGTCCATTCCCCAAGA  
 GGAGAATCTTTCAGAAGATTCTAAGAGCTCATCACTAAATTCAGGAAATTATTTGAATCCTGCCTGTAGA  
 AATCCTATGTATATTCATACTTCACTCTCCAGGATTTTCTCGAAGTGTGCCAGGCACCACAAGTTCAC  
 CACTAGTTGGGGACATATCCCCCAAGAGCAGTCCCATGAAGTTAAATCCAAATGCAGAGGAAAAGTGA  
 AGCTCCAAGTTATATAGCTGTACCTGATCCAGTGTCCCTGAAACAAGGCTTCTCTAAGGACCTTCAACC  
 TGGTCTGTGGATGAAGTGATACAGTTTATGAAACATACAGATCCTCAGATATCAGGCCCCCTCGCCGACC  
 TCTTCAGGCAACATGAAATTGATGGGAAGGCTCTGTTCTACTCAAGAGTGATGTGATGATGAAGTATAT  
 GGGGCTGAAGCTGGGGCCAGCATTAAAGCTGTGTTACTACATTGAAAAGCTTAAAGAAGGAAAATACAGT

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:** >RG209060 representing NM\_006089  
Red=Cloning site Green=Tags(s)

MGQTVNEDSMDVKKENQEKTQSSTSSVQRDDFHWEELYKETGSISAPSECFRQSQIPPVNDFKVGMKLE  
 ARDPRNATSVCIATVIGITGARLRLRLDGSNDRNDFWRLVSPDIQPVGTCCEKGDLLQPPLGYQMNTSS  
 WPMFLLKTLNGSEMASATLFKKEPPKPLNFKVGMKLEAIDKKNPYLICPATIGDVKGDVHITFDGWS  
 GAFDYWCKYDSRDIFPAGWCRLTGDVLQPPGTSVPIVKNIAKTESPSEASQHSMQSPQKTTLILPTQQV  
 RRSRIKPPGPTAVPKRSSSVKNITPRKKGPNSGKKEKPLPVICSTSAASLKS LTRDRGMLYKDVASGPC  
 KIYMSTVCVYVNHKGNFGPHLDPKRIQQLPDHFGPGPVNVVLRRIVQACVDCALETKTTFVGYLKPDRGG  
 EVITASFDGETHSIQLPVNSASFALRFLFNFCHSLQCDNLLSSQPFSSSRGHTHSSAEHDKNQSAKEDV  
 TERQSTKRSPQQTVPYVPLSPKLPKTKKEYASEGEPLFAGGSAIPKEENLSEDSKSSSLNSGNYLNACR  
 NPMYIHTSVSQDFRSVPGTSSPLVGDISPSSPHEVKFQMQRKSEAPSYIAVPDPSVLKQGFSDKDPST  
 WSVDEVIQFMKHTDPQISGPLADLFRQHEIDGKALFLLKSDVMMKYMGLKLGPAKLCYYIEKLKEGKYS

TRTRPLE - GFP Tag - V

**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_006089

**ORF Size:** 2100 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.

**RefSeq:** [NM\\_006089.1](#), [NP\\_006080.1](#)

**RefSeq Size:** 4130 bp

**RefSeq ORF:** 2103 bp

**Locus ID:** 10389

**UniProt ID:** [Q9UQR0](#)

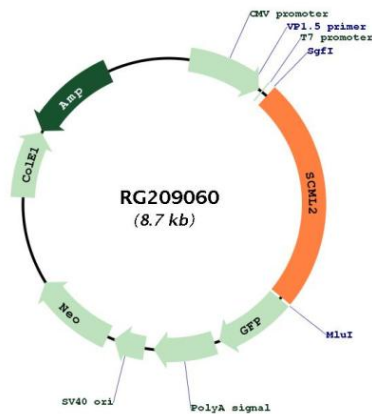
**Cytogenetics:** Xp22.13

**Domains:** SAM, MBT

**Protein Families:** Transcription Factors

**Gene Summary:** This gene encodes a member of the Polycomb group proteins. These proteins form the Polycomb repressive complexes which are involved in transcriptional repression. The encoded protein binds histone peptides that are monomethylated at lysine residues and may be involved in regulating homeotic gene expression during development. [provided by RefSeq, Jun 2010]

**Product images:**



Circular map for RG209060