

Product datasheet for **RG202299**

SGF29 (NM_138414) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	TurboGFP
Symbol:	SGF29
Synonyms:	CCDC101; STAF36; TDRD29
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)

ORF Nucleotide Sequence: >RG202299 representing NM_138414
Red=Cloning site Blue=ORF Green=Tags(s)

TTTGTGAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**GCGATCGCC**

ATGGCCCTCGTGTCTGCCGATTCCCGCATTGCAGAACTTCTCACAGAGCTCCATCAGCTGATCAAACAAA
CCCAGGAAGAGCGTTCCGCGGAGCGAACACAACCTTAGTGAACATCCAGAAGACCCATGAGCGGATGCAGAC
AGAGAACAAAGATTTCTCCCTATTACCGGACAAAGCTGCGTGGCCTCTACACAACCGCCAAGGCCGATGCA
GAGGCTGAGTGCAACATCCTTCGGAAGCTCTGGACAAGATCGCGAAATCAAGTCTCTGTTGGAAGAGA
GGCGGATTGCGGCCAAGATTGCGGTCTCTACAATGACTCGGAGCCACCCCGGAAGACCATGCGCAGAGG
GGTGTGATGACCTGCTGCAGCAGTCGGCCATGACCTGCCCTGTGGATCGGGAAGCCTGGTGACAAG
CCCCACCCCTCTGTGGGGCCATCCCTGCCTCAGGAGACTACGTGGCCAGACCTGGAGACAAGGTGGCTG
CCCGGGTGAAGGCCGTGGATGGGGACGAGCAGTGGATCCTGGCCGAGGTGGTCAGTTACAGCCATGCCAC
CAACAAGTATGAGGTAGATGACATCGATGAAGAAGGCAAGAGAGACACACCCTGAGCCGGCGCCGTGTC
ATCCCCTGCCCAAGTGAAGGCCAACCCGGAGACGGACCCTGAGGCCCTGTTCCAGAAGGAGCAGCTCG
TGCTGGCCCTGTATCCCAGACTACCTGCTTCTACCGCGCCCTGATCCATGCGCCCCACAGCGGCCCA
GGATGACTACTCGGTCTGTTTGAAGACACCTCCTATGCAGATGGCTATTCCCTCCCCTCAATGTGGCT
CAGAGATACGTGGTGGCTTGAAGGAACCAAGAAAAAG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



Protein Sequence: >RG202299 representing NM_138414
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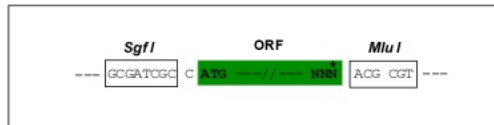
MALVSADSRIAELLTELHQLIKQTQEERSRSEHNLVNIQK THERMQTENKISPYRTKLRGLYTTAKADA
 EAECNILRKALDKIAEIKSLLEERRIAAKIAGLYNDSEPPRKTMRRGVLM TLLQQSAM TLPWIGKPGDK
 PPPLCGAIPASGDYVARPGDKVAARVKAVDGDEQWILAEVVSYS HATNKYEVD DIDEEGKERHTLSRRRV
 IPLPQWKANPETDPEALFQKEQLVLALYPQTTCFYRALIHAPPQRPQDDYSVLFEDTSYADGYSPPLNVA
 QRYVVACKEPKKK

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



CTATAGGCGCGCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCCGCCGATCGCCGGCGCCAGATCT

EcoRI BamHI KpnI RBS Kozac Consensus SgfI AscI

CAAGCTTAAGCTAGCTAGCGGACCG ACG CGT ACG CGG CCG CTC GAG ATG GAG AGC GAC ---

HindIII NheI RsrII MluI NotI XhoI GFP Tag

T R T R P L E M E S D - - -

--- GAA GAA AGA GTT TAA ACGGCCGCCGCGGAGCT

- - E E R V Stop

ACCN: NM_138414

ORF Size: 879 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_138414.3](#)

RefSeq Size: 1157 bp

RefSeq ORF: 882 bp

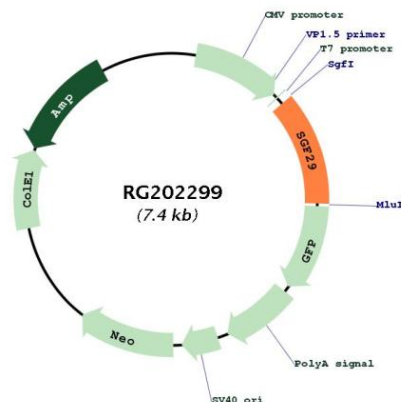
Locus ID: 112869

UniProt ID: [Q96ES7](#)

Cytogenetics: 16p11.2

Gene Summary: CCDC101 is a subunit of 2 histone acetyltransferase complexes: the ADA2A (TADA2A; MIM 602276)-containing (ATAC) complex and the SPT3 (SUPT3H; MIM 602947)-TAF9 (MIM 600822)-GCN5 (KAT2A; MIM 602301)/PCAF (KAT2B; MIM 602303) acetylase (STAGA) complex. Both of these complexes contain either GCN5 or PCAF, which are paralogous acetyltransferases (Wang et al., 2008 [PubMed 18838386]).[supplied by OMIM, Apr 2010]

Product images:



Circular map for RG202299