

Product datasheet for **RG213459**

SCC112 (PDS5A) (NM_001100400) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SCC112 (PDS5A) (NM_001100400) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	SCC112
Synonyms:	PIG54; SCC-112; SCC112
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG213459 representing NM_001100400
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGC**

ATGGACTTCACCGCGCAGCCCAAGCCTGCCACTGCCCTCTGTGGCGTCGTGAGTGCCGACGGAAGATCG
 CTTACCTCCGGGGTAAAAGAGATCACCGACAAGATCACACGACGAGATGATCAAACGCCTGAAGAT
 GGATAGTAAAAACCTTTATGGATATGGATCAGGACTCAGAAGATGAAAAACAGCAGTATCTCCCACTAGCC
 TTGCATCTTGCATCTGAATTCCTCCTCAGGAACCCCAATAAAGATGTGCGTCTCCTTGTAGCATGTTGTT
 TGGCTGATATCTTCGTATCTATGCCCCAGAAGCTCCATATACTTCCCATGATAAACTTAAGGACATATT
 TTTGTTTATTACCAGACAATTAAGGTTTGGAGGATACAAGAGTCCACAGTTTAAAGATCTTTTAT
 TTATTAGAGAATTAGCTTGGTTAAATCATATAACATCTGCTTTGAATTGGAAGATTGCAATGAAATTT
 TTATTCAGCTTTTGAAGTCTCTCTCAGTGATCAACAATAGCCACAATAAGAAGGTACAATGCACAT
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 ATTAACCTCATTCTGCACATAAGAAGTAAATAAACAGTCCTTTGACCTTGCAAAAGTGTATTGAAAA
 GAACAGTCCAGACTATTGAGGCATGCATTGCTAATTTTTCAATCAAGTCTGGTCTGGGAAGATCATC
 AGTAAGTGATTTGTCAGAACATGATTTGATCTGATTCAGGAAGTCTTGTATAGATCCTCATTATTA
 TTATCCGTCATGCCACAGCTTGAATTAAGTAAAGAGCAATGATGGAGAAGAGCGATTAGCTGTTGTTT
 GACTTCTAGCTAAATGTTTGGCTCAAAGATTCTGATTTGGCAACACAGAATCGTCTCTTTGGCAATG
 TTTTCTTGGACGATTTAATGATATTCATGTTCTGTGAGATTAGAAAGTGTGAAATTTGCCAGTCATTGT
 TTAATGAATCACCCAGATTTAGCGAAGGATCTCACAGAATTTAAAGGTTAGATCAGATGATCCAGAAG
 AAGCTATTCGTATGATGTCATTGTTACTATAAATACAGCTGCCAAGAGGACCTGGCCTTAGTAAATGA
 TCAGCTGCTTGGCTTTGTAAAGGAAAGAACACTGGATAAACGGTGGCGAGTAAGAAAAAGAAAGCTATGATG
 GGTCTGGCTCAGCTTTATAAGAAATACTGTCTTCATGGTGAAGCAGGAAAGGAAGCTGCAGAGAAAGTCA
 GCTGGATAAAGGACAACTTCTGCATATTTATTATCAGAACAGCATTGACGACAACTGTTGGTAGAGAA
 AATCTTTGCTCAGTATCTGTCCCCACAACCTGGAAACAGAAGAGAGAATGAAATGCTTATATTACTTA
 TATGCTAGTTTGGATCCAAATGCTGTAAAGCTCTCAACGAAATGTGGAAGTGTGAGAACATGCTTCGGA
 GCCATGTACGCGAATATTGGATTTGCACAAGCAGCTACATCAGAGGCTAACTGTTCTGCCATGTTTGG
 AAACTGATGACCATAGCAAAGAATTTGCCTGACCCCGGGAAGCACAAGATTTGTGAAGAAATTAAC
 CAGGTTCTCGGCATGATGAGAACTTCGGTCTCAGTTGGAGTTATTAATTAGCCCAACCTGTTCTTGCA
 AACAGCAGATATTTGTGTGGTTAGTAAATCATACTTCACACTTTTCTC

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

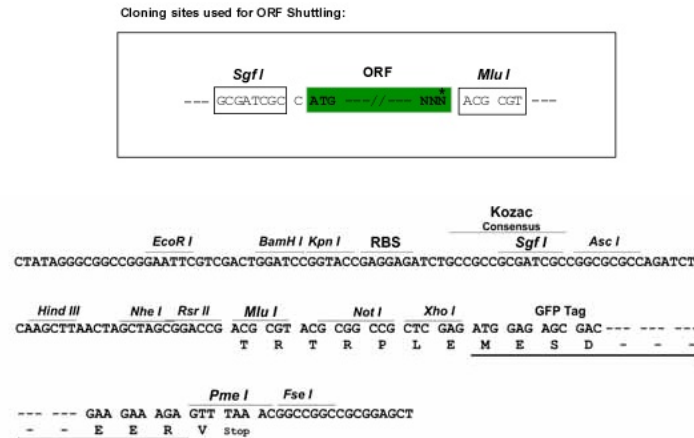
>RG213459 representing NM_001100400
 Red=Cloning site Green=Tags(s)

MDFTAQPKPATALCGVVSADGKIAYPPGVKEITDKITTDKIKRLKMMVKTTFMDMDQSEDEKQQYLPLA
 LHLASEFFLRNPNKDVRLLVACCLADIFRIYAPEAPYTSKDKLDIFLITRQLKLEDTKSPQFNRYFY
 LLENLAWKSYNICFELEDNEIFIQLFRTLFSVINNSHNKKVQMHMLDLMSIIMEGDGVTQELLDLIL
 INLIPAHKNLNKQSFDAKVLLKRTVQTEACIANFFNQVLVLGRSSVSDLSEHVFDLIQELFAIDPHLL
 LSVMPQLEFKLSNDGEERLAVRLLAKLFGSKDSDLATQNRPLWQCFLGRFNDIHVPVRLESVKFASHC
 LMNHPDLAKDLTEYLKVRSHDPEEAIKRDVIVTIIITAAKRDALVNDQLLGFVRERTLDKRWVRKEAMM
 GLAQLYKKYCLHGEAGKEAAEKVSWIKDLLHIYQNSIDDKLLVEKIFAQYLVPHNLETERMKCLYYL
 YASLDPNKALNEMWKCQNMRLRSHVRELLDLHKQPTSEANCSAMFGKLMTIKKNLPDQKADQFVKKFN
 QVLGDDEKLRSQLELLISPTCSCKQADICVVSYSYFTFL

TRTRPLE – GFP Tag – V

Restriction Sites:

SgfI-MluI

Cloning Scheme:


ACCN: NM_001100400

ORF Size: 1800 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_001100400.1](#), [NP_001093870.1](#)

RefSeq Size: 2745 bp

RefSeq ORF: 1803 bp

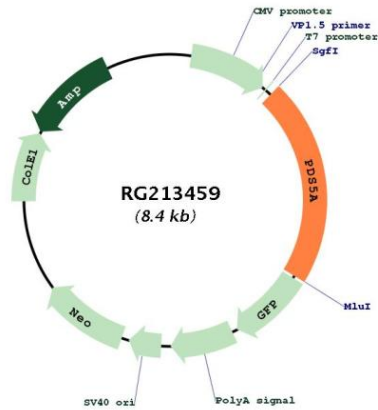
Locus ID: 23244

UniProt ID: [Q29RF7](#)

Cytogenetics: 4p14

Gene Summary:

The protein encoded by this gene binds to the cohesin complex and associates with chromatin through most of the cell cycle. The encoded protein may play a role in regulating sister chromatid cohesion during mitosis. Two transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, May 2010]

Product images:


Circular map for RG213459