

Product datasheet for **RG218526**

SCLT1 (NM_144643) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	TurboGFP
Symbol:	SCLT1
Synonyms:	CAP-1A; CAP1A
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

ORF Nucleotide Sequence: >RG218526 representing NM_144643
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCGCGATCGCC

ATGGCTGCAGAAATCGACTTTCTGAGAGAGCAAAATCGAAGACTAAATGAAGATTTAGGCGGTATCAAA
 TGGAAAGTTTTTCCAAATATTCATCTGTACAGAAAGCTGTCTGCCAAGGAGAAGGAGACGACACATTTGA
 AAACCTAGTATTTGACCAAGCTTTTCTAGCTCCTCTTGTACTGAGTATGATAAACACCTAGGAGAACTA
 AATGGGCAGCTGAAATATTACAGAAACAGGTGGGTGAGATGAAATTACAACCTGAAATGTCATCAAGG
 AAAATGAAAGGTTGCACAGTGAATTAAGATGCTGTTGAAAAAATTTGGAGGCCCTTCCCTTGGCAC
 AGAGGTAGGAACTGACATATATGCAGATGATGAAACAGTCAGAAACCTTCAAGAACAATTGCAGCTAGCC
 AATCAAGAAAAAATCAGGCTGTGGAATCTGGCAGACTGTTTCTCAGGAGTTGGACAGACTACACAAGC
 TTTACCAGGAACATATGACTGAGGCCAGATTCATGTATTTGAAAGTCAAAAACAAAGGATCAGCTATT
 TGATTTTCAACAACGACCAACAACCTTCATGTTACTAATGAGAACATGGAAGTGACTAACCAACAGTTT
 CTGAAACAGTAACGAAACAAAGTGTGATAATCGAAACAACTCCGAAAAAACTTAGGCAAGCCAAATTAG
 AGCTGAGAGTTGCTGTAGCAAAAGTGAAGAGTTAACTAATGTGACTGAAGATCTGCAGGGACAGATGAA
 AAAGAAGGAGAAGGATGTGGTGTCTGCCCATGGAAGAGAGGAAGCATCAGATAGGCGTTTACAGCAGTTA
 CAGCTAGTATATAAAACAATTAGAAATAAGATTATGTGTGACAATCCAAGAAGCCAACCAATTAAGAACC
 AAAATACACATCTGAAAAACAGACCAGAGAGCTACAAGCAAGTGCAATGAATTAGAAAAATGAGAGATA
 TGAGGCTATTGTAAGAGCCAGAAATAGCATGCAACTCTAGAAGAAGCTAACCTTCAAAAAAGTCAGGCT
 CTACTTGAGGAGAAGCAAAAAGAAGACATAGAGAAAAATGAAAGAGACAGTTTCTCGTTTGTACAAG
 ATGCTACCATAAGAACCAAGAAAGAGTTGCAAAACCAAAAAACAATGTAATATACAAATTTCTCGATT
 AACAGAAAGCTTTTCAAGCCTTCAATGGAGTGTGCTGAAAAACAAGGCCAAATGAAACGAGTCATTAG
 GAAAAAAGCAGTGGAAGAAGAACTAGAAAGATTTACCGTGAAGGCAGAGGAAATGAGTGTGATTACA
 GAAACTGGAAGAAATGCACCAAGATTCCTGGTTTTCAGAGCGTTCAAAAGATGATCTTCAGCTAAGACT
 TACGAGAGCAGAAATAGAATAAAACAACCTTAACTGACTCCTCAGAGAAATATCACGTTACCAAGAA
 ATGATTCAGAAACTTCAAAATGTATTGGAGTCTGAGAGAGAGAACTGTGGGCTTGTCAAGTGAACAAAGGC
 TAAACTTCAGCAAGAAATAAACAGTTACGGAAGAGACTGAGAGTTTAAAGGAAGATTGCCTGGAGGC
 TCAAAAAAAGCCAAAGTAAAGATCAGTACAATGGAACATGAATTTTCAATAAGGAACGTGGATTGAA
 GTTCAATTGAGAGAGATGGAAGACAGTAATAGAAATTCATTGTTGAACTGAGGCATCTCCTAGCGACTC
 AACAGAAAGGCAGCCAATAGGTGAAAGAAGAAACGAAGAACTTACTGAAAGTGCAGAAATAGAAATCAA
 TAATCTAAAGAGTGAGCTGAGTCGACAGAACTTCATACCCAAGAGCTGCTTTCTCAGCTGGAATGGCA
 AATGAAAGGTAGCTGAGAATGAAAGCTAATTCTAGAGCATCAAGAAAAAGCCAACAGACTTCAAAGGC
 GTCTAAGTCAGGCAGAAGAGAGAGCTGCTTCAAGCTTCCAGCAGCTCAGTGTGATTACAGTCAGAGAAG
 AAAAGCAGCTCCCTGATGAATCTGAAAAATATT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG218526 representing NM_144643
 Red=Cloning site Green=Tags(s)

MAAEIDFLREQNRRLNEDFRRYQMESFSKYSSVQKAVCQGEQDDTFENLVFDQSFLAPLVTEYDKHLGEL
 NGQLKYYQKQVGMKQLLENVIKENERLHSELKDAVEKKLEAFPLGTEVGTDIYADDETVRNLQEQLQLA
 NQEKTAQVELWQTVSQELDRLHKLQEHMTEAQIHVFESQKQKQDLDFQQLTKQLHVTNENMEVTNQF
 LKTVTEQSVIIEQLRKLRQAKLELRVAVAKVEELTNVTEDLQGMKKKEKDVSAHGREEASDRRLQQL
 QSSIKQLEIRLCVTIQEANQLRTEHLEKQRELQAKCNELENERYEAIVRARNMQLLLEANLQKSQA
 LLEEKQKEEDIEKMKETVSRFVQDATIRTKKEVANTKKQCNIQISRLTEELSAQMECAEKQGQIERVIK
 EKKAVEEELEKIYREGRGNECDYRKLEEMHQRFLVRSRSDDLQLRLTRAENRIKQLETDSSEIISRYQE
 MIQKLQNVLESERENGLVSEQRLKLQQENKQLRKETESLRKIALEAQKKAKVKISTMEHEFSIKERGFE
 VQLREMEDSNRNSIVELRHLLATQQKANRWKEETKKLTESAIRINNLSSEL SRQLHTQELLSQLLEMA
 NEKVAENKLIIEHQEKANRLQRRLSQAEEAASASQQLSVITVQRRKAASLMNLENI

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_144643

ORF Size: 2064 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_144643.1](#), [NP_653244.1](#)

RefSeq Size: 2816 bp

RefSeq ORF: 2067 bp

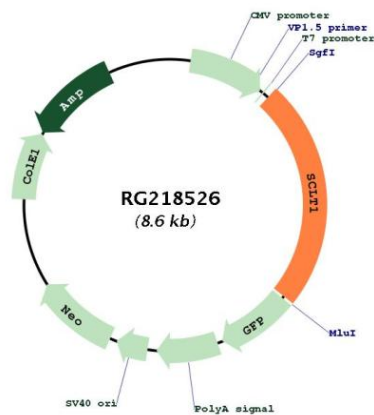
Locus ID: 132320

UniProt ID: [Q96NL6](#)

Cytogenetics: 4q28.2

Gene Summary: This gene encodes an adaptor protein. Studies of a related gene in rat suggest that the encoded protein functions to link clathrin to the sodium channel protein type 10 subunit alpha protein. The encoded protein has also been identified as a component of distal appendages of centrioles that is necessary for ciliogenesis. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Jul 2014]

Product images:



Circular map for RG218526