

Product datasheet for **SC321270**

SCLY (NM_016510) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SCLY (NM_016510) Human Untagged Clone
Tag:	Tag Free
Symbol:	SCLY
Synonyms:	hSCL; SCL
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC (PS100020)
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene sequence for NM_016510.3
 CAGCAGTGGGGCGGGGATGGAGGCGGCCGTGGCGCCGGGGAGGGATGCGCCGGCACCCGC
 GGCGAGTCAGCCAGCGGCTGCGGGAAACAACCTCGCCGGAGAGGAAAGTTTATATGGA
 CTATAATGCAACGACTCCCCTGGAGCCAGAAGTTATCCAGGCCATGACCAAGGCCATGTG
 GGAAGCCTGGGAAATCCCAGCAGCCCGTATTCAGCAGGAAGAAAGGCCAAGGATATTAT
 AAATGCAGCTCGGAAAGCCTCGGAAGATGATAGGGGGGAAACCTCAAGATATAATCTT
 CACTCCGGGGGCACTGAGTCAAATAATTTAGTAATCCATTCTGTGGTGAAACATTTCCA
 CGCAAACCAGACCTCAAAGGGACACACAGGTGGGCACCACAGCCAGTGAAGGGGGCCAA
 GCCCATTTCATTACTTCTCGGTGGAACACGACTCCATCCGGCTGCCCTGGAGCACCT
 GGTGGAAGAACAAGTGGCAGCGGTACCTTTGTCCCGGTGTCCAAGGTGAGCGGGCAGAC
 AGAGGTGGACGACATCCTCGCGGAGTCCGCCGACCACAGCCTCGTGACCATCATGCT
 GGCCAACAATGAGACTGGCATTGTATGCCTGTCCCTGAAATCAGTCAGCGCATTAAAGC
 CCTGAACCAGGAACGGGTGGCAGCTGGGCTACCTCCCATCCTCGTGCACACGGATGCTGC
 ACAGGCCCTGGGGAAGCAGCGCGTGGATGTGGAGGACCTGGGCGTGGACTTCCTTACAAT
 CGTGGGGCACAAGTTTTATGGTCCCAGGATTGGCGCACTTTATATACGAGGACTTGGTGA
 ATTTACCCTCTTACCCTATGCTATTTGGAGGTGGACAAGAACGGAATTTACAGGCCAGG
 GACAGAGAACACCCCAATGATTGCTGGCCTTGGGAAGGCCGCGGAGCTGGTGACCAGAA
 CTGCGAGGCTTATGAGGCCACATGAGGGACGTCCGCGACTACCTGGAAGAGAGGCTGGA
 AGCTGAATTCGGTCAGAAAGAAATCCATCTGAATAGCCAGTTTCCAGGCCACCCAGCGCT
 TCCCAATACCTGTAACTTTTCCATCCGGGGACCCCGGCTTCAAGGCCACGTGGTGTCTGC
 GCAGTGCCGAGTGTGATGGCCAGTGTGGGGCCCGGTGCCACTCGGACCACGGGGACCA
 GCCGTCACAGTGTCTGCTGAGCTACGGTGTCCCCTTCGACGTGGCCAGGAACCGCTCCG
 GCTCAGCGTGGCCGAGCACCAGGGCCGAGGTGGACCTCGTGTGCAGGACCTGAA
 GCAGCCCGTGGCCGAGCTGGAGGACAGCCAGCCTAGCACTGGGGCCGCTTCCCCACCCGC
 TTCTGGGAAGCCCGTGGCAGGGCACAGGTTGTCCCTCCAGTTCCTCCTGAGGGCTGTG
 CCAGGATGACTGTCTCATGCCCCCTCTGCATTTTGTCTGGAGTGCCAGCGAGTGTGCAC
 CCCCAGTTTCTTCCCTGGAACCCTGCAGAGCTCACAGGGCCAGGACACCAACGCCGCA
 TAGGACCGCCACATGGGAACGCCACATGGGACCGCCACATAGGACCGCCACATAGG
 ACCGCCACATGGGACCGCCACATAGAACCGCCACATAGGACCGCCACATGGGAACG
 CCCACATGGGACCGCCACATGGGACCGCCACATGGGACCGCCACATAGAACCGTCT
 CCAGTGGTGAAGCGGAAACACTTAGCTTTATCCACCCTCCCACCTGGGAACTGGGCACGC
 CTGTTGTGAGTGCCTTTCTGGAAGGTGTTTTATCTGGAAGATAGAATCCAAGTATTT
 ATAACCTATTGTGAGCCAAATGCTATCATGAACGTAGGAAACTTGATTTTTTTGTTTTGA
 TCATGGCCTCTACATGCACCTTTCCAGAGTGGTCTCTTCTCGGGCCCTTTTATGTCCTT
 TCCAAAGCTGCCCCACCACCCTGCTCCTCTGGCCTCAGTGCACAGTGGCCCCAGCCTC
 GGCCAGGCTGCTCTGCTCAGCGCCACCAGCCACCACCCTCCTGCTTCCCCGAGCCTG
 ACCCTGTTCCGCCACTGGCAATCAGGGCTGCGCACTTCCCTGTCCACGGTCCCCAGGCC
 TTCCTGTCTTGTCCCTTTTATCATTAACTCAGGGTTTACGCTCCAACCTCGCTGAGTTG
 GTGCAGTCCGGTCACTTCTGGGGTGGGAATCGGATCATCCCTGACTCAGCTTATACCT
 TAATTTTATTTGCAGAGGATCTTTTCTAAAATGCTCTGGCATTGGACACACATCACA
 TGTCGATATTTGCATAGGAGTATTTTTCAGTGAATAACATTTTTAATGTGTGGTTTTAC
 GGTTCAGGAACTACATGATGATTTTGGAGAAACACTTGCAGAACTAAATTAACGAAT
 AAAAGATTTCAAGTCCCCGAAAAAAAAAAAAAAAAAAAA

Restriction Sites: Please inquire

ACCN: NM_016510

OTI Disclaimer: Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

OTI Annotation:	This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
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:	<ol style="list-style-type: none">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_016510.3 , NP_057594.2
RefSeq Size:	2496 bp
RefSeq ORF:	1338 bp
Locus ID:	51540
UniProt ID:	Q96115
Cytogenetics:	2q37.3
Domains:	aminotran_5
Protein Pathways:	Metabolic pathways, Selenoamino acid metabolism
Gene Summary:	Selenocysteine lyase (SCLY; EC 4.4.1.16) catalyzes the pyridoxal 5-prime phosphate-dependent conversion of L-selenocysteine to L-alanine and elemental selenium (Mihara et al., 2000 [PubMed 10692412]).[supplied by OMIM, Mar 2008]