

Product datasheet for **SC308718**

LYST (NM_000081) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	LYST (NM_000081) Human Untagged Clone
Tag:	Tag Free
Symbol:	LYST
Synonyms:	CHS; CHS1; Mauve
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)

Fully Sequenced ORF: >OriGene ORF sequence for NM_000081 edited
 ATGAGCACCGACAGTAACTCACTGGCACGTGAATTTCTGACCGATGTCAACCGGCTTTGC
 AATGACAGTGGTCCAGAGGGTGGAGGCCAGGGAGGAAGAAGAGGAGGAGACGCACATGGCA
 ACCCTTGGACAGTACCTTGTCATGGTCGAGGATTTCTATTACTTACCAAGCTAAATTCT
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 GAAGGACCAGCAGCGCTTGAAACAGCCAATGTTCTATTCTTCTTAGCAGCTATGCAGC
 CGGGTGA

Restriction Sites: Please inquire

ACCN: NM_000081

Insert Size: 12000 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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 clone has been fully sequenced and found to be a perfect match to the protein associated with this reference, NM_000081.2.

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_000081.2](#), [NP_000072.2](#)

RefSeq Size: 13493 bp

RefSeq ORF: 11406 bp

Locus ID: 1130

UniProt ID: [Q99698](#)

Cytogenetics: 1q42.3

Domains: Beach, WD40

Protein Families: Druggable Genome

Gene Summary: This gene encodes a protein that regulates intracellular protein trafficking in endosomes, and may be involved in pigmentation. Mutations in this gene are associated with Chediak-Higashi syndrome, a lysosomal storage disorder. Alternative splicing results in multiple transcript variants, though the full-length nature of some of these variants has not been determined. [provided by RefSeq, Apr 2013]
Transcript Variant: This variant (1) encodes the functional protein. Variants 1 and 3 encode the same protein.