

## Product datasheet for RC223618

### LYST (NM\_000081) Human Tagged ORF Clone

#### Product data:

|                           |   |
|---------------------------|---|
| Product Type:             | Expression Plasmids   |
| Product Name:             | LYST (NM_000081) Human Tagged ORF Clone                                     |
| Tag:                      | Myc-DDK   |
| Symbol:                   | LYST  |
| Synonyms:                 | CHS; CHS1; Mauve  |
| Mammalian Cell Selection: | Neomycin  |
| Vector:                   | pCMV6-Entry (PS100001)  |
| E. coli Selection:        | Kanamycin (25 ug/mL)  |
| ORF Nucleotide Sequence:  | >RC223618 representing NM_000081<br>Red=Cloning site Blue=ORF Green=Tags(s) |

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**Protein Sequence:**

>RC223618 representing NM\_000081  
 Red=Cloning site Green=Tags(s)

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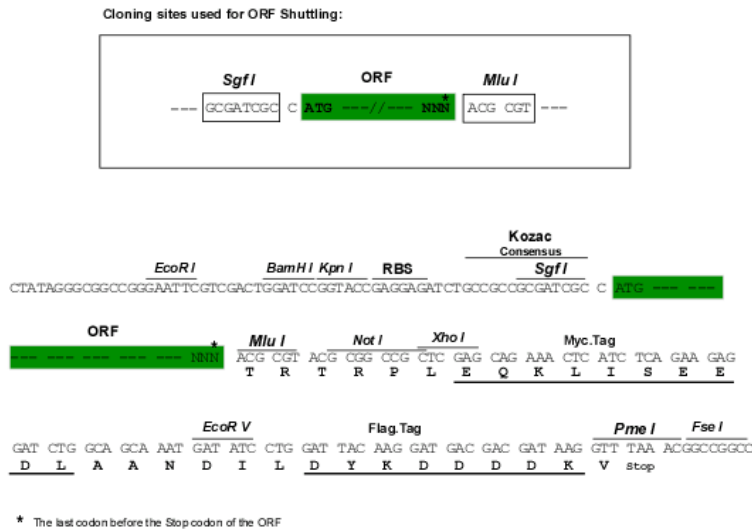
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 CAWVPDSCQLFTGSKCGVITAYNRTSSTPSEIEMETQIHL YGHTEEITSLFVCKPYSILISVSRDGT  
 CIWDLNRLCYVQSLAGHKSPVTAVSASETSGDIATVCDSAGGSDLRRLWTVNGDLVGHVHCREIICSVAF  
 SNQPEGVSINVIAGLENGIVRLWSTWDLKPVREITFPKSNKPIISLTFSCDGHHLTYANS DGTVIACWR  
 KDQQRKQPMFYSFLSSYAAG

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

**Restriction Sites:**

SgfI-MluI

Cloning Scheme:



ACCN: NM\_000081

ORF Size: 11403 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](mailto:custsupport@origene.com) or by calling 301.340.3188 option 3 for pricing and delivery.

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\\_000081.4](#)

**RefSeq Size:** 13503 bp

**RefSeq ORF:** 11406 bp

**Locus ID:** 1130

**UniProt ID:** [Q99698](#)

**Cytogenetics:** 1q42.3

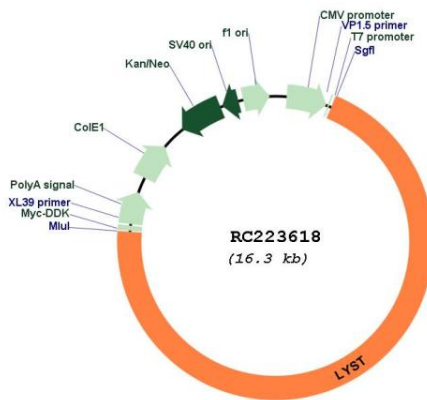
**Domains:** Beach, WD40

**Protein Families:** Druggable Genome

**MW:** 429.1 kDa

**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]

**Product images:**



Circular map for RC223618