

Product datasheet for **SC326695**

Lymphocyte Antigen 6 Complex (LY6K) (NM_001160354) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Lymphocyte Antigen 6 Complex (LY6K) (NM_001160354) Human Untagged Clone
Tag:	Tag Free
Symbol:	Lymphocyte Antigen 6 Complex
Synonyms:	CT97; HSJ001348; ly-6K; URLC10
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for NM_001160354, the custom clone sequence may differ by one or more nucleotides ATGGCGCTGCTCGCCTTGCTGCTGGTCGTGGCCCTACCGCGGTTGGACAGACGCCAAC CTGACTGCGAGACAACGAGATCCAGAGGACTCCCAGCGAACGGACGAGGGTGACAATAGA GTGTGGTGTGATGTTGTGAGAGAGAAAACACTTTCGAGTGCCAGAACCAAGGAGGTGC AAATGGACAGAGCCATACTGCGTTATAGCGGCCGTGACAACCCTAGACCCGATTCCCA GTGCATATGGACAGGCCATACCACGCAGAAGCCAGCCCTTCCCTGAAGCAGCATTCAACA CACAGGCTGGCCCTGCTCCTCCCGACTCCCCCTTGGTGGCCAGTTGACTGTGCACCT
Restriction Sites:	Please inquire
ACCN:	NM_001160354
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).



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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_001160354.1](#), [NP_001153826.1](#)

RefSeq Size: 1994 bp

RefSeq ORF: 363 bp

Locus ID: 54742

UniProt ID: [Q17RY6](#)

Cytogenetics: 8q24.3

Protein Families: Transmembrane

Gene Summary: Required for sperm migration into the oviduct and male fertility by controlling binding of sperm to zona pellucida (By similarity). May play a role in cell growth (PubMed:18089789). [UniProtKB/Swiss-Prot Function]

Transcript Variant: This variant (2) uses an alternate splice site in the 3' coding region that causes a frameshift, compared to variant 1. The resulting isoform (2) has a distinct and shorter C-terminus, compared to isoform 1. Sequence Note: A downstream translational start codon is selected for this RefSeq based on its better conservation in mammalian species, on a strong Kozak signal, and on the presence of a predicted signal peptide in the protein N-terminus. Studies in PMID:18089789 support the secretion of this protein. An upstream in-frame start codon is also present but has a weaker Kozak signal and is poorly conserved. The use of the upstream start codon would result in a protein that lacks a predicted signal peptide and is 58 aa longer at the N-terminus. Leaky scanning by ribosomes may allow translation initiation at the downstream start codon.