

Product datasheet for **RG212498**

Lymphocyte Antigen 6 Complex (LY6K) (NM_017527) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Lymphocyte Antigen 6 Complex (LY6K) (NM_017527) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Lymphocyte Antigen 6 Complex
Synonyms:	CT97; HSJ001348; ly-6K; URLC10
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG212498 representing NM_017527 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGAGGCTCCAAAGACCCCGACAGGCCCGCGGGTGGGAGGCGCGCCCCGGGGCGGGCGGGCTCCC
CCTACCGCCAGACCCGGGGAGAGGCGCGGAGGCTGCGAAGTTCCAGAAGGGCGGGAGGGGCGCC
GCGCGTGACCCCTCCCTGGGCACCGCTGGGACGATGGCGCTGCTCGCCTTGCTGCTGGTCTGGCCCTA
CCGCGGGTGTGGACAGACGCCAACCTGACTGCGAGACAACGAGATCCAGAGGACTCCAGCGAACGGACG
AGGGTGACAATAGAGTGTGGTGTGATGTTGTGAGAGAGAAAACACTTTCGAGTGCCAGAACCCAAGGAG
GTGCAAAATGGACAGAGCCATACTGCGTTATAGCGCCGTGAAAATATTTCCACGTTTTTTCATGTTGCG
AAGCAGTGCTCCGCTGTTGTGACGATGGAGAGACCCAGCCAGAGGAGAAGCGGTTTTCTCTGGAAG
AGCCCATGCCCTTCTTTTACCTCAAGTGTGTAATAATTCGCTACTGCAATTTAGAGGGGCCACCTATCAA
CTCATCAGTGTTCAAAGAATATGCTGGGAGCATGGGTGAGAGCTGTTGGTGGGCTGTGGCTGGCCATCCTC
CTGCTGCTGGCCTCCATTGCAGCCGGCCTCAGCCTGTCT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG212498 representing NM_017527
 Red=Cloning site Green=Tags(s)

MRLQRPRQAPAGGRRAPRGRGSPYRDPDPRGRARRLRFQKGGEGAPRADPPWAPLGTMALLALLLVVAL
 PRVWTDANLTARQRDPEDSQRTDEGDNRVWCHVCERENTFECQNPRRCKWTEPYCVIAAVKIFPRFFMVA
 KQCSAGCAAMERPKEEKRFLLLEPMPFFYLKCKIRYCNLEGPPISSVFKEYAGSMGESCGLWLAIL
 LLLASIAAGLSLS

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_017527

ORF Size: 669 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.

RefSeq: [NM_017527.2](#), [NP_059997.2](#)

RefSeq Size: 1735 bp

RefSeq ORF: 498 bp

Locus ID: 54742

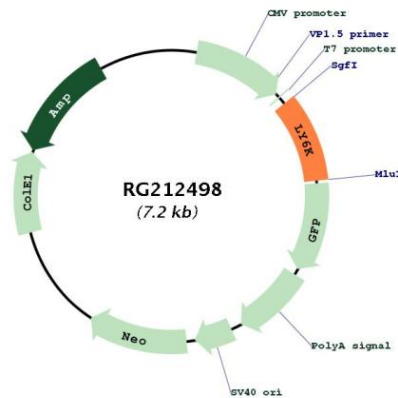
UniProt ID: [Q17RY6](#)

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]

Product images:



Circular map for RG212498