

Product datasheet for **RG204863**

LAGE3 (NM_006014) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	TurboGFP
Symbol:	LAGE3
Synonyms:	CVG5; DXS9879E; DXS9951E; ESO3; GAMOS2; ITBA2; Pcc1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)

ORF Nucleotide Sequence: >RG204863 representing NM_006014
Red=Cloning site Blue=ORF Green=Tags(s)

TTTGTGAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGCGGGACGCGGATGCAGACGCAGGCGGAGGCGCTGACGGCGGGGATGGCCGGGTGGCCACAGCTGCC
GCGGGGGCGTGGACACAGCCGAGCTCCGGCCGGTGGAGCTCCCCAGCGCACGCGCCAGGTCCGGGCAG
AGACGCCGCGTCTGCGGCCAGGGGTACGAATGCGGCCGCACATATTCACCTCAGCGTGCCTTTCCCG
ACCCCTTGGAGGCGGAAATCGCCCATGGTCCCTGGCACCAGATGCCGAGCCCAACAAAGGTGGTTG
GGAAGGATCTCACAGTGAGTGGCAGGATCCTGGTCGTCGCTGGAAAGCTGAAGACTGTCGCTGCTCCG
AATTTCCGTCATCACTTTCTTGACCAGCTTTCCTGGTGGTGGCACCAGATGCAGCGCTTTGGGCCCCC
GTTTCCCGC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG204863 representing NM_006014
Red=Cloning site Green=Tags(s)

MRDADADAGGGADGGDGRGGHSCRGGVDTAAAPAGGAPPAHAPGPRDAASAARGSRMRPHIFTLSPFP
TPLEAEIAHGSLAPDAEPHQRVVGGDLTVSGRILVVRWKAEDCRLLRISVINFLDQLSLVVRTMQRFQPP
VSR

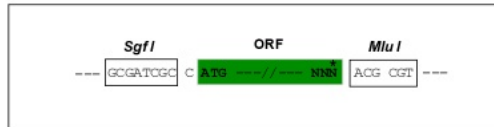
TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI



Cloning Scheme:

Cloning sites used for ORF Shutting:



CTATAGGGCGGCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCCGCCGATCGCCGGCGCCAGATCT

EcoRI BamHI KpnI RBS Kozac Consensus SgfI AscI

HindIII NheI RsrII MluI NotI XhoI GFP Tag

CAAGCTTAAGTCTAGCGGACG ACG CGT ACG CGG CCG CTC GAG ATG GAG AGC GAC --- --- ---

T R T R P L E M E S D - - -

PmeI FseI

--- GAA GAA AGA GTT TAA ACGCCGGCCGCGGAGCT

- - E E R V Stop

ACCN: NM_006014

ORF Size: 429 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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_006014.4](#)

RefSeq Size: 961 bp
 RefSeq ORF: 432 bp
 Locus ID: 8270

UniProt ID: [Q14657](#)

Cytogenetics: Xq28

Gene Summary: This gene belongs to the ESO/LAGE gene family, members of which are clustered together on chromosome Xq28, and have similar exon-intron structures. Unlike the other family members which are normally expressed only in testis and activated in a wide range of human tumors, this gene is ubiquitously expressed in somatic tissues. The latter, combined with the finding that it is highly conserved in mouse and rat, suggests that the encoded protein is functionally important. An intronless pseudogene with high sequence similarity to this gene is located on chromosome 9. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RG204863