

Product datasheet for **RG223983**

LY6G5B (NM_021221) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Tag: TurboGFP
Symbol: LY6G5B
Synonyms: C6orf19; G5b
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)

ORF Nucleotide Sequence: >RG223983 representing NM_021221
Red=Cloning site Blue=ORF Green=Tags(s)

TTTGTGAATACGACTCACTATAGGGCGGCCGGAATTCGTGCACTCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGAAGGTCCATATGCTTGTAGGTGTGCTGGTTCATGGTGGGCTTCACAGTAGGAAAGGTTCTGTTCCTG
ACATCCGGACGTGCCACTTCTGCCTCGTAGAAGACCCTTCTGTAGGATGCATTCAGGCTCAGAGAAGTG
TACCATCAGCAGCTCATCCCTGTGCATGGTGATCACCATCTATTATGATGTCAAGGTTTCGCTTCATCGTT
CGAGGCTGTGGACAGTACATTTCTACCGCTGCCAAGAAAAACGCAACACCTACTTTGCAGAGTACTGGT
ATCAGGCCCAAGTGCTGTCACTACGATTATTGCAACTCCTGGTCAAGCCCCCACTCCAGAGCTCTCTGCC
GGAGCCCCATGACAGGCCCTGGCCCTGCCTCTGTCTGACTCCAGATTCAAGTGGTTCTACAGGCCCTG
AACCTCTCCTGCCCTCCCCAATTTCCATGCTGGGACGGAGCCTGATGGCCTGGACCCCATGGTCACAC
TGTCCCTGAACCTGGGCTTGCTTTTGTGAGCTGCGCCGATGTACTTGTCTCAATAGTTCAGGACT
TTTGGTCTTCCCAGGCTGGACTCTGACACCTCACCTTCC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG223983 representing NM_021221
Red=Cloning site Green=Tags(s)

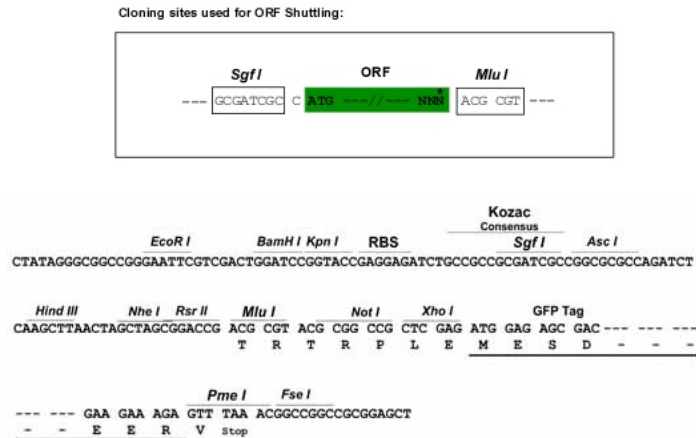
MKVHMLVGVLVMGFTVGKVPVDIRTCHFLVEDPSVGCISGSEKCTISSSSLCMVITIYYDVKVRFI
RGCGQYISYRCQEKRNTRYFAEYWYQAQCCQYDYCNSSPQLQSSLPEDRPLALPLSDSIQWYQAL
NLSLPLPNFHAGTEPDGLDPMVTLNLGLSFAELRRMYLFLNSSGLLVLPQAGLLTPHPS

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI



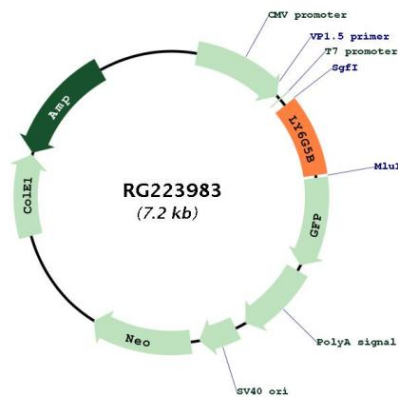
Cloning Scheme:



ACCN:	NM_021221
ORF Size:	603 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_021221.2 , NP_067044.2
RefSeq Size:	774 bp

RefSeq ORF:	606 bp
Locus ID:	58496
UniProt ID:	Q8NDX9
Cytogenetics:	6p21.33
Gene Summary:	LY6G5B belongs to a cluster of leukocyte antigen-6 (LY6) genes located in the major histocompatibility complex (MHC) class III region on chromosome 6. Members of the LY6 superfamily typically contain 70 to 80 amino acids, including 8 to 10 cysteines. Most LY6 proteins are attached to the cell surface by a glycosylphosphatidylinositol (GPI) anchor that is directly involved in signal transduction (Mallya et al., 2002 [PubMed 12079290]).[supplied by OMIM, Mar 2008]

Product images:



Circular map for RG223983