

Product datasheet for **RG223536**

LY6G6D (NM_021246) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: LY6G6D (NM_021246) Human Tagged ORF Clone
Tag: TurboGFP
Symbol: LY6G6D
Synonyms: C6orf23; G6D; LY6-D; MEGT1; NG25
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG223536 representing NM_021246
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAACTACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCCGATCGCC

ATGAAACCCAGTTTGTGGGATCTTGCTCAGCTCCCTGCTAGGGGCTGCCTTGGGAAACCGAATGCGGT
GCTACAACGTGGTGGAAGCCCCAGCAGTTCTTGCAAAGAGGCCGTGACCACCTGTGGCGAGGGCAGACC
CCAGCCAGGCCTGGAACAGATCAAGCTACCTGGAACCCCCAGTGACCTTGATTACCAACATCCAGCC
TGCCTCGCAGCCCATCATTGCAATCAAGTGAGACAGAGTCGGTGGGAGACGTGACTTATCCAGCCCACA
GGGACTGCTACCTGGGAGACCTGTGCAACAGCGCCGTGGCAAGCCATGTGGCCCTGCAGGCATTTGGC
TGCAGCAGCTACCGCCCTGACCTGTCTTGCCAGGACTGTGGAGCGGA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG223536 representing NM_021246
Red=Cloning site Green=Tags(s)

MKPQFVGILLSSLLGAALGNMRMRYNCGSPSSSSCKEAVTTCGEGRPQPGLEQIKLPGNPPVTLIHQHPA
 CVAAHHCNQVETESVGDVTPAHRDCYLGDL CNSAVASHVAPAGILAAAATALTCLLPGLWSG

TRTRPLE - GFP Tag - V

Restriction Sites: Sgfl-MluI


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Cloning Scheme:


ACCN: NM_021246

ORF Size: 399 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.

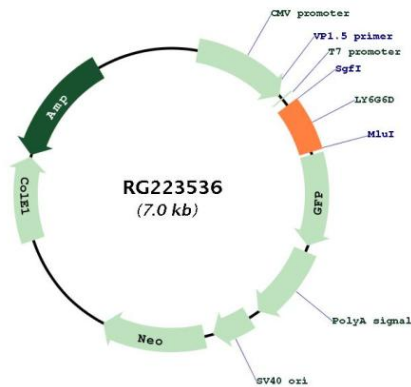
Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_021246.2](#), [NP_067069.2](#)

RefSeq Size: 402 bp

RefSeq ORF:	402 bp
Locus ID:	58530
UniProt ID:	<u>O95868</u>
Cytogenetics:	6p21.33
Gene Summary:	LY6G6D 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, Apr 2009]

Product images:



Circular map for RG223536