

Product datasheet for **RG220100**

LY108 (SLAMF6) (NM_052931) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	LY108 (SLAMF6) (NM_052931) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	LY108
Synonyms:	CD352; KALI; KALib; Ly108; NTB-A; NTBA; SF2000
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG220100 representing NM_052931 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGTTGTGGCTGTTCCAATCGCTCCTGTTGTCTTCTGCTTTGGCCAGGGAATGTAGTTTCACAAAGCA
GCTTAACCCCATGATGGTGAACGGGATTCTGGGGAGTCAGTAACCTCTCCCTGGAGTTTCTGCAGG
AGAGAAGGTCACTTCATCACTTGGCTTTCAATGAAACATCTCTGCCTTCATAGTACCCCATGAAACC
AAAAGTCCAGAAATCCACGTGACTAATCCGAAACAGGAAAGCGACTGAACTTCACCCAGTCTACTCCC
TGCAACTCAGCAACCTGAAGATGGAAGACACAGGCTCTTACAGAGCCAGATATCCACAAAGACCTCTGC
AAAGCTGTCCAGTTACACTCTGAGGATATTAAGACAACCTGAGGAACATACAAGTTACCAATCACAGTCAG
CTATTTGAGAATATGACCTGTGAGCTCCATCTGACTTGCTCTGTGGAGGATGCAGATGACAATGTCTCAT
TCAGATGGGAGGCCTTGGGAAACACACTTTCAAGTCAGCCAAACCTCACTGTCTCCTGGGACCCAGGAT
TTCCAGTGAACAGGACTACACCTGCATAGCAGAGAATGCTGTCTAGTAATTTATCCTTCTCTGTCTGCTGCC
CAGAAGCTTTGCGAAGATGTTAAAATTCATATACAGATACCAAAATGATTCTGTTTATGGTTTCTGGGA
TATGCATAGTCTTCGGTTTCATCACTGCTGTTACTTGTGTTTGGAGAAAAGAAGAGATTCCTATCTTT
GTCTACTCAGCGAACACAGGGCCCGAGTCCGCAAGGAACCTAGAGTATGTTTCAGTGTCTCCAACGAAC
AACACTGTGTATGCTTCAGTCACTCATTCAAACAGGAAACAGAAATCTGGACACCTAGAGAAAATGATA
CTATCACAATTTACTCCACAATTAATCATTCCAAGAGAGTAAACCCACTTTTTCCAGGGCAACTGCCCT
TGACAATGTCGTG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG220100 representing NM_052931
Red=Cloning site Green=Tags(s)

MLWLFQSLLFVFCFGPGNVVVSQSSLTPLMVNGILGESVTLPLEFPAGEKVNFIWLFNETSLAFIVPHET
 KSPEIHVTNPKQKRLNFTQSYSLQLSNLKMEDTGSYRAQISTKTSAKLSSYTLRILRQLRNIQVTNHSQ
 LFQNMTCELHLTCSVEDADDNVSRWEALGNTLSSQPNLTVSWDPRISSEQDYTCIAENAVSNLSFSVSA
 QKLCEDVKIQYTDKMLILFMVSGICIVFGFIILLLLVLRKRRDLSLSTQRTQGPESARNLEYVSVSPTN
 NTYYASVTHSNRETEIWTPRENDTITIIYSTINHSKESKPTFSRATALDNVV

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_052931

ORF Size: 993 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_052931.5](#)

RefSeq Size: 2776 bp

RefSeq ORF: 996 bp

Locus ID: 114836

UniProt ID: [Q96DU3](#)

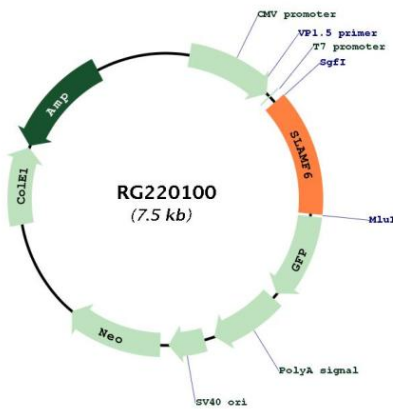
Cytogenetics: 1q23.2-q23.3

Domains: ig, IG

Protein Families: Druggable Genome, Transmembrane

Gene Summary: The protein encoded by this gene is a type I transmembrane protein, belonging to the CD2 subfamily of the immunoglobulin superfamily. This encoded protein is expressed on Natural killer (NK), T, and B lymphocytes. It undergoes tyrosine phosphorylation and associates with the Src homology 2 domain-containing protein (SH2D1A) as well as with SH2 domain-containing phosphatases (SHPs). It functions as a coreceptor in the process of NK cell activation. It can also mediate inhibitory signals in NK cells from X-linked lymphoproliferative patients. Alternative splicing results in multiple transcript variants encoding distinct isoforms. [provided by RefSeq, May 2010]

Product images:



Circular map for RG220100