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Product datasheet for RG201358

Calbindin (CALB1) (NM_004929) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Calbindin (CALB1) (NM_004929) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	CALB1
Synonyms:	CALB; D-28K
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)

ORF Nucleotide Sequence:

>RG201358 representing NM_004929
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGCAGAATCCCACCTGCAGTCATCCCTCATCACAGCCTCACAGTTTTTCGAGATCTGGCTCCATTTCG
ACGCTGACGGAAGTGGTTACCTGGAAGGAAAGGAGCTGCAGAACTTGATCCAGGAGCTCCAGCAGGCGCG
AAAGAAGGCTGGATTGGAGTTATCACCTGAAATGAAAACTTTTGTGGATCAGTATGGGCAAAGAGATGAT
GGAAAAATAGGAATTGTAGAGTTGGCTCACGTATTACCCACAGAAGAGAATTTCCTGCTGCTCTTCCGAT
GCCAGCAGCTGAAGTCCTGTGAGGAATTCATGAAGACATGGAGAAAATATGATACTGACCACAGTGGCTT
CATAGAAACTGAGGAGCTTAAGAACTTTCTAAAGGACCTGCTAGAAAAAGCAAACAAGACTGTTGATGAC
ACAAAATTAGCCGAGTATACAGACCTAATGCTGAAACTATTTGATTCAAATAATGATGGGAAGCTGGAAT
TAACTGAGATGGCCAGGTTACTACCAGTGCAGGAGAATTTTCTTCTTAAATTCCAGGGAATCAAAATGTG
TGGGAAAGAGTTCAATAAGGCTTTTGAGCTGTATGATCAGGACGGCAATGGATACATAGATGAAAATGAA
CTGGATGCTTTACTGAAGGATCTGTGCGAGAAGAATAAACAGGATCTGGATATTAATAATATTACAACAT
ACAAGAAGAACATAATGGCTTTGTCGGATGGAGGGAAGCTGTACCGAACGGATCTTGCTCTTATTCTCTG
TGCTGGGGATAAC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

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Protein Sequence:

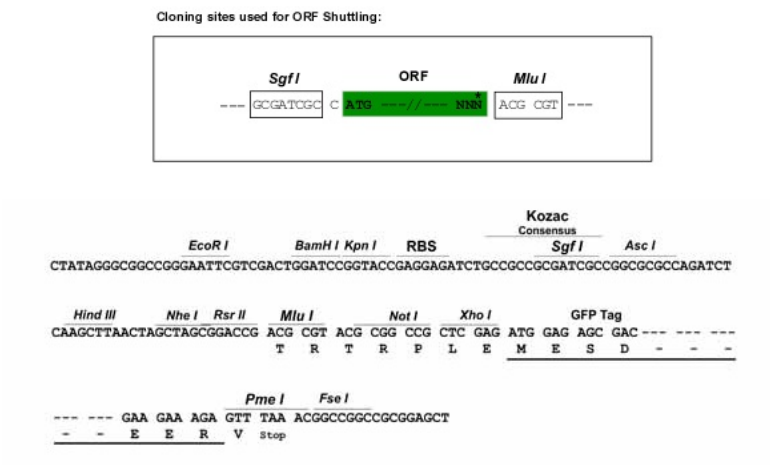
>RG201358 representing NM_004929
Red=Cloning site Green=Tags(s)

MAESHLQSSLITASQFFEIWLHFDADGSGYLEGKELQNLIQELQQARKKAGLELSPEMKTFVDQYGQRDD
GKIGIVELAHVLPTEENFLLLFRCQQLKSCEEFMKTWRKYDTDHSGFIETEELKNFLKDLLEKANKTVDD
TKLAEYTDLMLKLFDSNNDGKLELTEMARLLPVQENFLLKFQGIKMCGKEFNKAFELYDQDGNGYIDENE
LDALLKDLCEKNKQDLDINNITTYKKNIMALSDGGKLYRTDLALILCAGDN

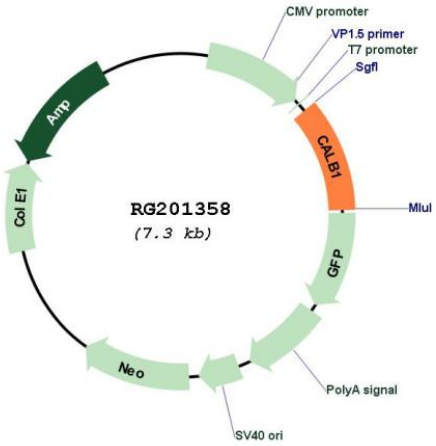
TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_004929

ORF Size: 783 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_004929.4
RefSeq Size:	2531 bp
RefSeq ORF:	786 bp
Locus ID:	793
UniProt ID:	P05937
Cytogenetics:	8q21.3
Domains:	EFh
Gene Summary:	The protein encoded by this gene is a member of the calcium-binding protein superfamily that includes calmodulin and troponin C. Originally described as a 27 kDa protein, it is now known to be a 28 kDa protein. It contains four active calcium-binding domains, and has two modified domains that are thought to have lost their calcium binding capability. This protein is thought to buffer entry of calcium upon stimulation of glutamate receptors. Depletion of this protein was noted in patients with Huntington disease. [provided by RefSeq, Jan 2015]