

Product datasheet for **SC117035**

Calbindin (CALB1) (NM_004929) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Calbindin (CALB1) (NM_004929) Human Untagged Clone
Tag:	Tag Free
Symbol:	Calbindin
Synonyms:	CALB; D-28K
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC117035 sequence for NM_004929 edited (data generated by NextGen Sequencing)

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ATGGCAGAATCCCACCTGCAGTCATCCCTCATCACAGCCTCACAGTTTTTCGAGATCTGG
CTCCATTTTCGACGCTGACGGAAGTGTTACCTGGAAGGAAAGGAGCTGCAGAACTTGATC
CAGGAGCTCCAGCAGGCGCAAAGAAGGCTGGATTGGAGTTATCACCTGAAATGAAAAC
TTTGTGGATCAGTATGGGCAAAGAGATGATGGAAAAATAGGAATTGTAGAGTTGGCTCAC
GTATTACCCACAGAAGAGAATTTCTGCTGCTCTCCGATGCCAGCAGCTGAAGTCCTGT
GAGGAATTCATGAAGACATGGAGAAAATATGATACTGACCACAGTGGCTTCATAGAACT
GAGGAGCTTAAGAACTTTCTAAAGGACCTGCTAGAAAAAGCAAACAAGACTGTTGATGAC
ACAAAATTAGCCGAGTATACAGACCTAATGCTGAAACTATTTGATTCAAATAATGATGGG
AAGCTGGAATTAAGTGAATGGCCAGGTTACTACCAAGTGCAGGAGAATTTCTTCTTAAA
TTCCAGGGAATCAAATGTGTGGAAAGAGTTCAATAAGGCTTTTGAGCTGTATGATCAG
GACGGCAATGGATACATAGATGAAAATGAACTGGATGCTTTACTGAAGGATCTGTGCGAG
AAGAATAAACAGGATCTGGATATTAATAATATTACAACATACAAGAAGAACATAATGGCT
TTGTCGGATGGAGGGAAGCTGTACCGAACGGATCTTGCTCTTATTCTCTGTGCTGGGGAT
AACTAG
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Clone variation with respect to NM_004929.2



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5' Read Nucleotide Sequence:

>OriGene 5' read for NM_004929 unedited
 GCGGCACGCGCAATTCGGCACGAGGCTGAGCTGAGCAGCACCCGAGGACAGCGCCCGGCAG
 CGCCCGCGCCAGGTCTCCCTCCGCAGCCCTGACTCGCGCACACGCTGAGCTTTTGCTCA
 CTCCCCCTCGCGCGGACACAGACACACGCATATTCACACACCCAGACACACCCCGCTG
 TACAATGGCAGAAATCCCACCTGCAGTCATCCCTCATCACAGCCTCACAGTTTTTCGAGAT
 CTGGCTCCATTTTCGACGCTGACGGAAGTGGTTACCTGGAAGGAAAGGAGCTGCAGAACTT
 GATCCAGGAGCTCCAGCAGGCGCGAAAGAAGGCTGGATTGGAGTTATCACCTGAAATGAA
 AACTTTTGTGGATCAGTATGGGCAAAGAGATGATGGAAAAATAGGAATTGTAGAGTTGGC
 TCACGTATTACCCACAGAAGAGAATTTCTGCTGCTCTCCGATGCCAGCAGCTGAAGTC
 CTGTGAGGAATTCATGAAGACATGGAGAAAAATATGATACTGACCACAGTGGCTTCATAGA
 AACTGAGGAGCTTAAGAACTTTCTAAAGGACCTGCTAGAAAAAGCAAACAAGACTGTTGA
 TGACACAAAATTAGCCGAGTATACAGACCTAATGCTGAAACTATTTGATTCAAATAATGA
 TGGGAAGCTGGAATTAAGTGAAGTGGCCAGGTTACTACCAGTGCAGGAGAATTTTCTTCT
 TAATCCAGGGAATCAAATGTGTGGGAAAAGAGTTCATAAGGGCTTTGAGCTGTATGAT
 CAGGACNNGCATGGATACATAGATGAAAATGAACTGGGATGCTTACTGAAGGATCTGTGC
 GAGAAGAATAACA

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_004929 unedited
 GACCGCGGGCCGCAATCTANAGTCGAGTTTTTTTTTTTTTTTTTTTCTAAGGTTATTTTCT
 TCTTTATTTATTCTTAGTAGTTAAATTCAGTCTAATGGCAGTGTCCATTTACACGCTA
 AAGGCAAAGCCAACTCCCACCTCAACATCATTGTTGAATTTTAGTTTTGGCAAATCTC
 GTTTCTGTTTCTTGGAGGAAACATTATAGCTCACATTTTTTGGTTATTTTTATGAAT
 TCAGAAAAAAGTGTGAATTTATAGAATGGGGACATTCAGCTGACCCAGAACGATCAT
 TAACTCCTAGGCAGTAAGTGAATTTTACATGGACACATCTCTCATAGCTCCCTGTTTC
 ACAATCAAAGAAATCTAAATACCAACTGTTACATATCAACTATAACCGATATAGGATA
 TTCTAGCTACAAATATGTGAAACTGACTTAGATGTATGTTAAAGAATGTTTTAGAACTT
 CTTGCTAGATAAGATAAATGATTACATTAGCATTTCTTTTCAGATGTTATTTTTTAAAC
 TCATTTGAAACTATTTGCAGATAGAAATAGAACTATTTTGAACTGATCTCAATATGAA
 ATATAGAATCCACAGAATACACAAAAGTATTGATGATATAACATTCAATAATCAGGATGC
 TATGAATTTTACATTAATAATTAATTATGTAGTAAAAAATANGAGTTGTTATAGCTAGAA
 AAAAATATTTTCAGAGGCAGCAGATACCCTTGGTGGAAANTGAACANGTTTCATAGAAAG
 GAAATCCAGAAAGTATTGCAACTAGACACAGGATATGCAGTATATAAAATTAATCAGAGA
 TACACAGGTTTGACATAAACAGCNGGTGACTGAATATTTTGCACACTGAAAACAGTTAGA
 AATGGATTAGGTCTATCTCTGACGAAAATTGTG

Restriction Sites:

NotI-NotI

ACCN:

NM_004929

Insert Size:

2660 bp

OTI Disclaimer:

Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

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_004929.2](#), [NP_004920.1](#)

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]