

Product datasheet for **RG205810**

Calneuron 1 (CALN1) (NM_031468) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Calneuron 1 (CALN1) (NM_031468) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Calneuron 1
Synonyms:	CABP8
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG205810 representing NM_031468 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCCGTTCCACCATGTGACCGCCGGCTTGTGTACAAGGGGAATTACCTCAACCGATCGCTCTCTGCTG
GCAGTGACAGCGAACAGCTGGCTAATATCTCCGTGGAGGAGCTCGATGAAATCCGAGAGGCCTTTCGGGT
TCTGGACCGGGATGGGAACGGCTTCATCTCCAAGCAGGAGCTGGGCATGGCCATGCGCTCTTTGGGGTAC
ATGCCAAGCGAGGTGGAGCTGGCCATCATCATGCAGCGCTTGGACATGGACGGGGATGGCCAGTGGATT
TTGATGAATTCATGACCATTCTTGGCCCAAACCTGGTGTCTTCAGAAGGTCGCGATGGTTTTCTTGGGAA
CAGGATAGACAGCATATTCTGGCAGTTTGACATGCAAAGGATAACTCTGGAAGAGTTGAAGCACATTCTC
TATCATGCCTTCCGAGACCACCTAACGATGAAGGACATTGAGAACATCATTATCAATGAGGAAGAGAGCC
TGAATGAGACCTCGGGAACTGCCAAACAGAGTTTGAAGGAGTGCATTCCAGAAGCAGAACAGACAGAC
CTGCGTCCGGAAGAGCCTCATATGCGCCTTTGCTATGGCCTTCATCATCAGTGTGTCATGCTGATTGCGACC
AACCAGATACTCCGGAGCGGCATGGAG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG205810 representing NM_031468
 Red=Cloning site Green=Tags(s)

MPFHVHTAGLLYKGNLNRSL SAGSDSEQLANISVEELDEIREAFRVLDRDGNFISKQELGMAMRSLGY
 MPSEVELAIIMQRLDMDGDGQVDFDEFMTILGPKLVSSEGRDGLGNTIDSIWFQFDMQRITL EELKHIL
 YHAFRDHLTMKDIENIIINEEESLNETSGNCQTEFEGVHSQKQNRQTCVRKSLICAFAMAFIISVMLIAA
 NQILRSGME

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_031468

ORF Size: 657 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_031468.2](#), [NP_113656.1](#)

RefSeq Size: 9500 bp

RefSeq ORF: 786 bp

Locus ID: 83698

UniProt ID: [Q9BXU9](#)

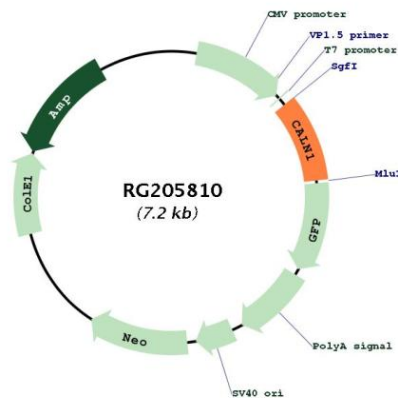
Cytogenetics: 7q11.22

Domains: EFh

Protein Families: Transmembrane

Gene Summary: This gene encodes a protein with high similarity to the calcium-binding proteins of the calmodulin family. The encoded protein contains two EF-hand domains and potential calcium-binding sites. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RG205810