

Product datasheet for **RC221065**

Calneuron 1 (CALN1) (NM_001017440) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Calneuron 1 (CALN1) (NM_001017440) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Calneuron 1
Synonyms:	CABP8
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC221065 representing NM_001017440 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCCGTTCCACCATGTGACCGCCGGCTTGTGTACAAGGGGAATTACCTCAACCGATCGCTCTCTGCTG
GCAGTGACAGCGAACAGCTGGCTAATATCTCCGTGGAGGAGCTCGATGAAATCCGAGAGGCCTTTCGGGT
TCTGGACCGGGATGGGAACGGCTTCATCTCCAAGCAGGAGCTGGGCATGGCCATGCGCTCTTGGGGTAC
ATGCCAAGCGAGGTGGAGCTGGCCATCATCATGCAGCGCTTGGACATGGACGGGGATGGCCAGGTGGATT
TTGATGAATTCATGACCATTCTTGGCCCCAACTGGTGTCTTCAGAAGGTCGCGATGGTTTTCTTGGGAA
CAGCATAGACAGCATATTCTGGCAGTTTGACATGCAAAGGATAACTCTGGAAGAGTTGAAGCACATTCTC
TATCATGCCTTCCGAGACCACCTAACGATGAAGGACATTGAGAACATCATTATCAATGAGGAAGAGAGCC
TGAATGAGACCTCGGGGAAGTGCACAAACAGAGTTTGAAGGAGTGCATTCCAGAGCAGAACAGACAGAC
CTGCGTCCGGAAGAGCCTCATATGCGCCTTTGCTATGGCCTTCATCATCAGTGTCATGCTGATTGACGCC
AACCAGATACTCCGAGCGGCATGGAG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC221065 representing NM_001017440

Red=Cloning site Green=Tags(s)

MPFHVHTAGLLYKGNLYNRSLSAGSDSEQLANISVEELDEIREAFRLDRDGNGLFISKQELGMAMRSLGY
MPSEVELAIIMQRLDMDGGQVDFDEFMTILGPKLVSEGRDGLGNTIDSIFWQFDMQRITLEEKLHIL
YHAFRDHLTMKDIIENIIINEEESLNETSGNCQTEFEGVHSQKQNRQTCVRKSLICAFAMAFIISVMLIAA
NQTIRSGME

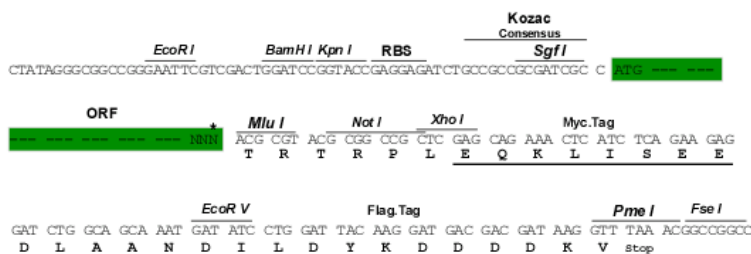
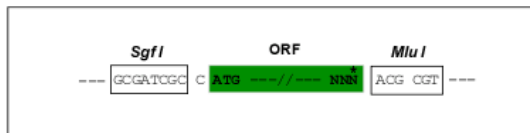
TRTRPLEOKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/ja1443_e12.zip

Restriction Sites: Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM 001017440

ORF Size: 657 bp

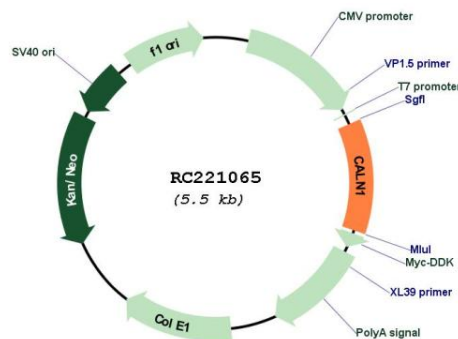
OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially 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.

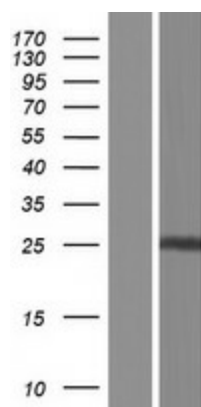
Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	<u>NM_001017440.3</u>
RefSeq Size:	5802 bp
RefSeq ORF:	660 bp
Locus ID:	83698
UniProt ID:	<u>Q9BXU9</u>
Cytogenetics:	7q11.22
Protein Families:	Transmembrane
MW:	24.7 kDa
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]

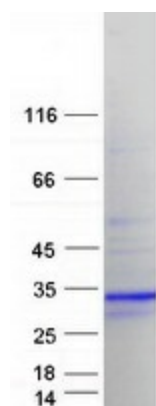
Product images:



Circular map for RC221065



Western blot validation of overexpression lysate (Cat# [LY422736]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC221065 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified CALN1 protein (Cat# [TP321065]). The protein was produced from HEK293T cells transfected with CALN1 cDNA clone (Cat# RC221065) using MegaTran 2.0 (Cat# [TT210002]).