

## Product datasheet for **RG208539**

### Calcium binding protein 7 (CABP7) (NM\_182527) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Calcium binding protein 7 (CABP7) (NM_182527) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Calcium binding protein 7
Synonyms:	CALN2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG208539 representing NM_182527 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGCCGTTCCACCCGGTGACGGCGCGTTGATGTACCGGGCATCTACACCGTGCCCAACCTGCTGTCCG  
AGCAGCGCCCGGTGGACATCCCGGAGGACGAGCTGGAGGAGATCCGAGAGGCCTTCAAGGTGTTGACCG  
TGACGGCAATGGCTTCATCTCCAAGCAGGAGCTGGGCACAGCCATGCGCTCACTGGTTACATGCCCAAC  
GAGGTGGAGCTGGAGTCATCATCCAGCGGCTGGACATGGATGGTATGGTCAAGTGGACTTTGAGGAGT  
TTGTGACCCTTCTGGACCCAACTCTCCACCTCAGGGATCCCAGAGAAGTCCATGGCACCGACTTTGA  
TACTGTCTTCTGGAAGTGCACATGCAGAAGCTGACGGTGGATGAGCTGAAGCGGCTGCTCTACGACACC  
TTCTGCGAGCACCTGTCCATGAAGGACATAGAGAACATCATCATGACGGAGGAGGAGCCACCTGGGCA  
CAGCCGAGGAGTGTCCCGTGGATGTGGAGACCTGCTCCAACCAGCAGATCCGCCAGACTTGCGTGCACAA  
GAGTCTCATCTGCGCCTTCGCCATCGCCTTCATCATCAGTGTTCATGCTCATTGCGGCCAACCAGGTGCTG  
CGCAGTGGCATGAAG

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >RG208539 representing NM\_182527  
Red=Cloning site Green=Tags(s)

MPFHPTAALMYRGIYTPNLLSEQRPVDIPEDELEEIREAFKVFDRDNGFISKQELGTAMRSLGYMPN  
 EVELEVIQRLLMDGDGQVDFEEFVTLGPKLSTSGIPEKFGHTDFDTVFWKCDMQKLTVDELKRLLYDT  
 FCEHLSMKDIENIIMTEEEHSLGTAEECPVDVETCSNQIIRQTCVRKSLICAFIAFIIISVMLIAANQVL  
 RSGMK

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_182527

**ORF Size:** 645 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\\_182527.3](#)

**RefSeq Size:** 3044 bp

**RefSeq ORF:** 648 bp

**Locus ID:** 164633

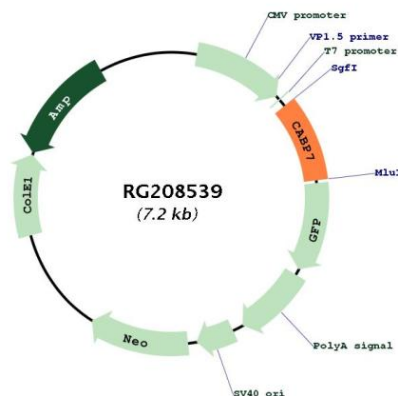
**UniProt ID:** [Q86V35](#)

**Cytogenetics:** 22q12.2

**Protein Families:** Transmembrane

**Gene Summary:** Negatively regulates Golgi-to-plasma membrane trafficking by interacting with PI4KB and inhibiting its activity.[UniProtKB/Swiss-Prot Function]

## Product images:



Circular map for RG208539