

Product datasheet for **RG223812**

AKAP7 (NM_138633) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: AKAP7 (NM_138633) Human Tagged ORF Clone
Tag: TurboGFP
Symbol: AKAP7
Synonyms: AKAP15; AKAP18
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG223812 representing NM_138633
Red=Cloning site **Blue**=ORF **Green**=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGGCCAGCTTTGCTGCTTTCTTTCTCAAGAGATGAAGGAAAAATCAGTGAGTTGAAAGCTCGTCCT
CTGCAGTCCTACAGAGATACAGCAAGGATATACCCAGTTGGTCAAGTGGTAAAAGAACGGAGGGGAGCC
CGATGACGCTGAAGTACTAGTAAGGCTCAGTAAGAGGCTGGTGGAGAACGCGGTGCTCAAGGCTGTCCAGCAG
TATCTGGAGGAAACACAGAATAAAAACAAGCCGGGGGAGGGGAGCTCTGTAAAACCGAAGCAGCTGATC
AGAAATGGCAATGACAATGAGAACAACAGGAAA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG223812 representing NM_138633
Red=Cloning site **Green**=Tags(s)
MGQLCCFPFSRDEGKISELESSSAVLQRYSKDIPSWSSGEKNGGEPDDAELVRLSKRLVENAVLKAVQQ
YLEETQNKPKPEGSSVKTEAADQNGNDNENNRK

TRTRPLE - GFP Tag - V

Restriction Sites: Sgfl-MluI



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Cloning Scheme:


ACCN: NM_138633

ORF Size: 312 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.

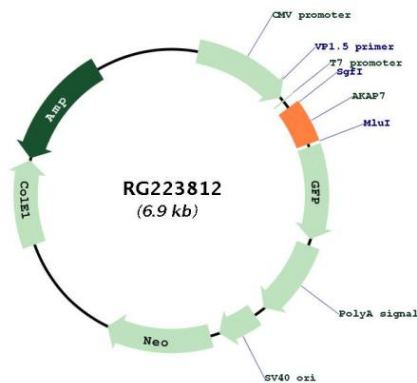
RefSeq: [NM_138633.3](#)

RefSeq Size: 2348 bp

RefSeq ORF: 315 bp

Locus ID: 9465
UniProt ID: [O43687](#)
Cytogenetics: 6q23.2
Protein Families: Druggable Genome
Gene Summary: This gene encodes a member of the A-kinase anchoring protein (AKAP) family, a group of functionally related proteins that bind to a regulatory subunit (RII) of cAMP-dependent protein kinase A (PKA) and target the enzyme to specific subcellular compartments. AKAPs have a common RII-binding domain, but contain different targeting motifs responsible for directing PKA to distinct intracellular locations. Three alternatively spliced transcript variants encoding different isoforms have been described.[provided by RefSeq, Apr 2011]

Product images:



Circular map for RG223812