

Product datasheet for **RG215892**

HOMER1 (NM_004272) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	TurboGFP
Symbol:	HOMER1
Synonyms:	HOMER; HOMER1A; HOMER1B; HOMER1C; SYN47; Ves-1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)

ORF Nucleotide Sequence: >RG215892 representing NM_004272
Red=Cloning site Blue=ORF Green=Tags(s)

TTTGTGAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGGGGAACAACCTATCTTCAGCACTCGAGCTCATGTCTTCAAATTGACCCAAACACAAGAAGAACT
GGGTACCCACCAGCAAGCATGCAGTTACTGTCTTATTTCTATGACAGCACAAGAAATGTGTATAGGAT
AATCAGTTTAGATGGCTCAAAGGCAATAATAAATAGTACCATCACCCAAACATGACATTTACTAAAACA
TCTCAGAAGTTTGGCCAGTGGGCTGATAGCCGGGCAACACCGTTTATGGATTGGGATCTCCTCTGAGC
ATCATCTTTTGAAATTTGCAGAAAAGTTTCAGGAATTTAAAGAAGCTGCTCGACTAGCAAAGGAAAAATC
ACAAGAGAAGATGGAACCTTACAGTACACCTTCACAGGAATCCGCAGGCGGGGATCTTCAGTCTCCTTTA
ACACCGGAAAGTATCAACGGGACAGATGATGAAAGAACACCTGATGTGACACAGAAGCTCAGAGCCAAGGG
CTGAACCAACTCAGAATGCATTGCCATTTTCATAGTTTACAGCAATCAGCAAACATTGGGAGGCTGAAGT
GGCTACCCTCAAAGGAAATAATGCCAACTCACTGCAGCCCTGCTGGAGTCCACTGCCAATGTGAAACAA
TGGAACACAGCAACTTGCTGCCTATCAAGAGGAAGCAGAACGTCTGCACAAGCGGGTGACTGAAGTGAAT
GTGTTAGTAGCCAAGCAATGCAGTACATACTCATAAGACAGAATTAATCAGACAATACAAGAAGTGA
AGAGACACTGAACTGAAGGAAGAGGAAATAGAAAGGTTAAACAAGAAATTGATAATGCCAGAGAACTA
CAAGAACAGAGGATTCTTTGACTCAGAACTACAGGAAGTAGAAATTCGGAACAAAGACCTGGAGGGAC
AACTGTCTGACTTAGAGCAACGTCTGGAGAAAAGTCAGAAATGAACAAGAAGCTTTTCGCAATAACCTGAA
GACACTCTTAGAAATCTGGATGGAAAGATATTTGAATAACAGAATTACGAGATAACTTGCCAAGCTA
CTAGAATGCAGC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



Protein Sequence: >RG215892 representing NM_004272
Red=Cloning site Green=Tags(s)

MGEQPIFSTRAHVFQIDPNTKKNWVPTSKHAVTVSYFYDSTRNVYRIISLDGSKAIINSTITPNMTFTKT
SQKFGQWADSRANTVYGLGFSSEHLSKFAEKQEFKEAARLAKEKSQEKMELTSTPSQESAGGDLQSPL
TPESINGTDDERTPDVTQNSEPRAEPTQNALPFSSSAISKHWEAELATLKGNNAKLTAALLESTANVKQ
WKQQLAAYQEEAERLHKRVTELECVSSQANAVHTHKTELNQTIQELEETLKLKEEEIERLKQEIDNAREL
QEQRDSLTKQLQEVEIRNKDLEGQLSDLEQRLEKSQNEQEAFFNNLKTLLLEILDGKIFELTELRLNLA
LECS

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_004272

ORF Size: 1062 bp

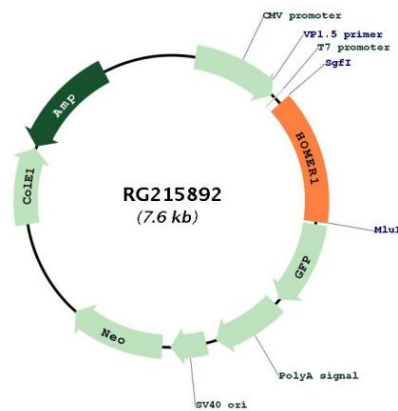
OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially 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_004272.5</u>
RefSeq Size:	4228 bp
RefSeq ORF:	1065 bp
Locus ID:	9456
UniProt ID:	<u>Q86YM7</u>
Cytogenetics:	5q14.1
Domains:	WH1
Protein Families:	Druggable Genome
Gene Summary:	This gene encodes a member of the homer family of dendritic proteins. Members of this family regulate group 1 metabotropic glutamate receptor function. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RG215892