

Product datasheet for **RG218155**

HOMER2 (NM_199332) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	HOMER2 (NM_199332) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	HOMER2
Synonyms:	ACPD; CPD; HOMER-2; HOMER2A; HOMER2B; Vesl-2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG218155 representing NM_199332 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGGAGAACAGCCCATCTTCACCACCCGAGCGCATGTCTTCCAGATTGACCCCAACACCAAGAAGAACT
GGATGCCGCGAGCAAGCAGGCGGTACCCTTTCTACTTCTATGATGTCACAAGGAACAGCTATCGGAT
CATCAGTGTGGACGGAGCCAAGGTGATCATAAACAGCACAATCACACCGAATATGACCTTACCAAAAACG
TCACAGAAGTTTGGCAGTGGGCCGACAGCAGAGCCAACACAGTGTGGTTTGGGTTTTCTCTGAGC
AGCAGCTGACAAAGTTTGCAGAGAAATTCAGGAGGTGAAAGAAGCTGCCAAGATAGCCAAGACAAGAC
GCAGGAGAAAATCGAGACCTCAAGTAATCATTCCAAGAATCTGGGCGTGAACCCCATCTTCTACTCAG
GCATCCAGTGTCACGGGACGGACGATGAAAAGGCCTCTCACGCCGCTCCAGCCAACACACACCTGAAGT
CTGAGAATGACAAGCTGAAGATTGCCTTGACGCAGAGCGCAGCCAACGTGAAGAATGAGATCAACAGAGA
GAAGGAGAAGAACACGCAGCTGAAGAGGAGGATCGAGGAGCTGGAGGCAGAGCTCCGAGAAAAGGAGACA
GAGCTGAAAGATCTCCGAAAACAAAGTAAATCATACCTCAGCTCATGTCAGAGTGCGAATATGTCTCTG
AGAAGCTAGAGGCGGCAGAGAGAGACAATCAAAACCTGGAAGACAAGTGCCTTCTTAAAGACAGACAT
TGAGGAGAGCAAATACCGACAGCGCCACCTGAAGGTGGAGTTGAAGAGCTTCTGGAGGTGCTGGACGGG
AAGATTGACGACCTGCATGACTTCGCCGAGGGCTCTCCAAGCTGGGCACCGATAAC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG218155 representing NM_199332
 Red=Cloning site Green=Tags(s)

MGEQPIFTTRAHVFDIDPNTKKNWMPASKQAVTVSYFYDVTNRNSYRIISVDGAKVIINSTITPNMTFTKT
 SQKFGQWADSRANTVFGGLFSSEQQLTKFAEKFQEVKEAAKIAKDKTQEKIETSSNHSQESGRETPSSTQ
 ASSVNGTDDEKASHAGPANTHLKSENDLKLIALTQSAANVKNEINREKEKNTQLKRRIIELEAELREKET
 ELKDLRKQSEIIPQLMSECEYVSEKLEAAERDNQNLQLEDKVRSCLKTDIEESKYRQRHLKVELKSFLEVLGD
 KIDDLHDFRRLSKLGTDN

TRTRPLE - GFP Tag - V

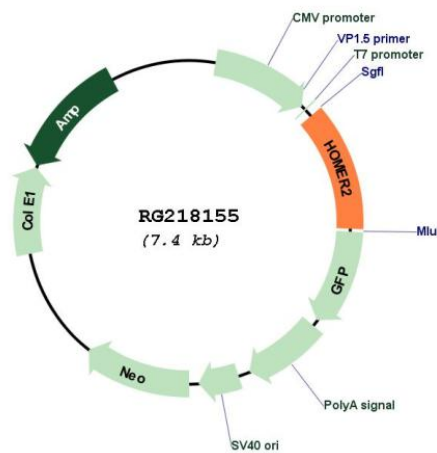
Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



Plasmid Map:



ACCN: NM_199332

ORF Size: 897 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:	<ol style="list-style-type: none">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_199332.2 , NP_955364.2
RefSeq Size:	1840 bp
RefSeq ORF:	899 bp
Locus ID:	9455
Cytogenetics:	15q25.2
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. The encoded protein is a postsynaptic density scaffolding protein. Alternative splicing results in multiple transcript variants. Two related pseudogenes have been identified on chromosome 14. [provided by RefSeq, Jun 2011]