

Product datasheet for **RC233483**

HOMER1 (NM_001277077) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	HOMER1 (NM_001277077) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	HOMER1
Synonyms:	HOMER; HOMER1A; HOMER1B; HOMER1C; SYN47; Ves-1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC233483 representing NM_001277077 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGGGAAACAACCTATCTTCAGCACTCGAGCTCATGTCTTCCAAATTGACCCAAACACAAAGAAGAACT
GGGTACCCACCAGCAAGCATGCAGTTACTGTGTCTTATTTCTATGACAGCACAAGAAATGTGTATAGGAT
AATCAGTTTAGATGGCTCAAAGGCAATAATAAATAGTACCATCACCCAAACATGACATTTACTAAAACA
TCTCAGAAAGTTTGCCAGTGGGCTGATAGCCGGGCAAACACCGTTTATGGATTGGGATTCTCCTCTGAGC
ATCATCTTTCGAAAGTACTGAACTTGAATGTGTAGTAGCCAAGCAAATGCAGTACATACTCATAAGAC
AGAATTAATCAGACAATACAAGAACTGGAAGAGACACTGAAACTGAAGGAAGAGGAAATAGAAAGGTTA
AAACAAGAAATTGATAATGCCAGAGAATAACAAGAACAGAGGGATTCTTTGACTCAGAACTACAGGAAG
TAGAAATTCGGAACAAAGACCTGGAGGGACAACGTCTGACTTAGAGCAACGTCTGGAGAAAAGTCAGAA
TGAACAAGAAGCTTTTCGCAATAACCTGAAGACACTCTTAGAAATCTGGATGGAAGATATTTGAACTA
ACAGAATTACGAGATAACTTGGCCAAGCTACTAGAATGCAGC

ACGCGTACGCGGCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC233483 representing NM_001277077
 Red=Cloning site Green=Tags(s)

MGEQPIFSTRAHVFDIDPNTKKNWVPTSKHAVTVSYFYDSTRNVYRIISLDGSKAIINSTITPNMTFTKT
 SQKFGQWADSRANTVYGLGFSSEHHLKVKTELECVSSQANAVHHTKTELNQTIQELEETLKLKEEEIERL
 KQEIDNARELQEQRDSL TQKLQVEVEIRNKDLEGQLSDLEQRLEKSQNEQEAFRNNLKTLLLEILDGKIFEL
 TELRDNLAKLLECS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_001277077

ORF Size: 672 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_001277077.1](#), [NP_001264006.1](#)

RefSeq Size: 3922 bp

RefSeq ORF: 675 bp

Locus ID: 9456

UniProt ID: [Q86YM7](#)

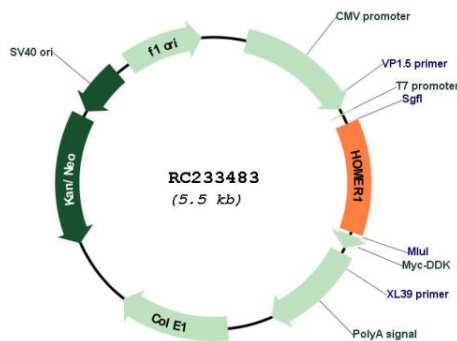
Cytogenetics: 5q14.1

Protein Families: Druggable Genome

MW: 26.3 kDa

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 RC233483