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Product datasheet for RG226650

HOMER3 (NM_001145721) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	HOMER3 (NM_001145721) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	HOMER3
Synonyms:	HOMER-3; VESL3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)

ORF Nucleotide Sequence:

>RG226650 representing NM_001145721
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGTCCACAGCCAGGGAGCAGCCAATCTTCAGCACACGGGCGCACGTGTTCCAAATTGACCCAGCCACCA
AGCGAAACTGGATCCCAGCGGGCAAGCACGCACTCACTGTCTCCTATTTCTACGATGCCACCCGCAATGT
GTACCGCATCATCAGCATCGGAGGCGCCAAGGCCATCATCAACAGCACTGTCACTCCCAACATGACCTTC
ACCAAAACTTCCCAGAAGTTCGGGCAGTGGGCCGACAGTCGCGCCAACACAGTCTACGGCCTGGGCTTTG
CCTCTGAACAGCATCTGACACAGTTTGCCGAGAAGTTCCAGGAAGTGAAGGAAGCAGCCAGGCTGGCCAG
GGAGAAATCTCAGGATGGCGGGGAGCTCACCAGTCCAGCCCTGGGGCTCGCCTCCCACCAGGTGCCCCCG
AGCCCTCTCGTCAGTGCCAACGGCCCCGGCGAGGAAAAACTGTTCCGCAGCCAGAGCGCTGATGCCCCCG
GCCCCACAGAGCGCGAGCGGCTAAAGAAGATGTTGTCTGAGGGCTCCGTGGGCGAGGTACAGTGGGAGGC
CGAGTTTTTCGCACTGCAGGACAGCAACAACAAGCTGGCAGGCGCCCTGCGAGAGGCCAACGCCGCCGCA
GCCCAGTGGAGGCAGCAGCTGGAGGCTCAGCGTGCAGAGGCCGAGCGGCTGCGGCAGCGGGTGGCTGAGC
TGGAGGCTCAGGCAGCTTCAGAGGTGACCCCCACCGGTGAGAAGGAGGGGCTGGGCCAGGGCCAGTCGCT
GGAACAGCTGGAAGCTCTGGTGCAAACCAAGGACCAGGAGATTCAGACCCTGAAGAGTCAGACTGGGGGG
CCCCGCGAGGCCCTGGAGGCTGCCGAGCGTGAGGAGACTCAGCAGAAGGTGCAGACCCGCAATGCGGAGT
TGGAGCACCAGCTGCGGGCGATGGAGCGCAGCCTGGAGGAGGCACGGGCAGAGCGGGAGCGGGCGCGGGC
TGAGGTGGGCCGGGCAGCGCAGCTGCTGGACGTCAGCCTGTTTGAGCTGAGTGAGCTGCGTGAGGGCCTG
GCCCGCCTGGCTGAGGCTGCGCCC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

View online »

Protein Sequence:

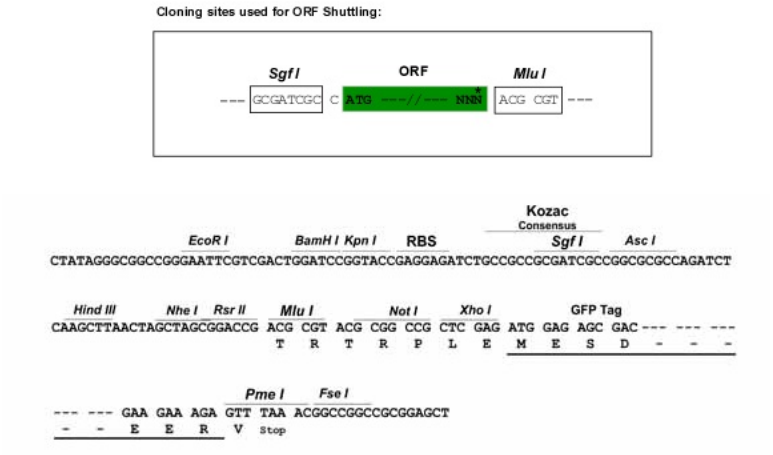
>RG226650 representing NM_001145721
Red=Cloning site Green=Tags(s)

MSTAREQPIFSTRAHVFQIDPATKRNWIPAGKHALTVSYFYDATRNVYRIISIGGAKAIINSTVTPNMTF
TKTSQKFGQWADSRANTVYGLGFASEQHLTQFAEKFQEVKEAARLAREKSQDGGELTSPALGLASHQVPP
SPLVSANGPGEEKLFRSQSADAPGPTERERLKKMLSEGSVGEVQWEAEFFALQDSNNKLAGALREANAAA
AQWRQQLEAQRAEAERLRQRVAELEAQAASEVTPTGEKEGLGQGQSLEQLEALVQTKDQEIQTLKSQTGG
PREALEAAEREETQQKVQTRNAELEHQLRAMERSLEEARAERERARAEVGRAAQLLDVSLFELSELREGL
ARLAEAAP

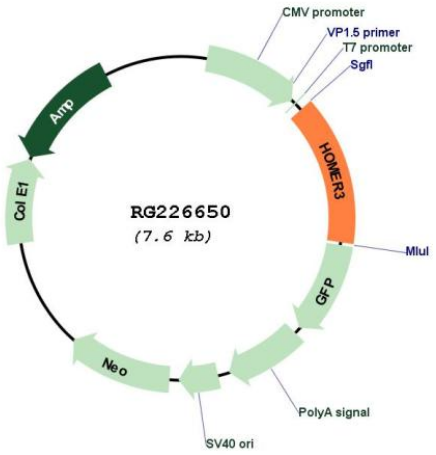
TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001145721

ORF Size:	1074 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_001145721.1, NP_001139193.1
RefSeq Size:	1428 bp
RefSeq ORF:	1077 bp
Locus ID:	9454
UniProt ID:	Q9NSC5
Cytogenetics:	19p13.11
Protein Families:	Druggable Genome
Gene Summary:	This gene encodes a member of the HOMER family of postsynaptic density scaffolding proteins that share a similar domain structure consisting of an N-terminal Enabled/vasodilator-stimulated phosphoprotein homology 1 domain which mediates protein-protein interactions, and a carboxy-terminal coiled-coil domain and two leucine zipper motifs that are involved in self-oligomerization. The encoded protein binds numerous other proteins including group I metabotropic glutamate receptors, inositol 1,4,5-trisphosphate receptors and amyloid precursor proteins and has been implicated in diverse biological functions such as neuronal signaling, T-cell activation and trafficking of amyloid beta peptides. Alternative splicing results in multiple transcript variants.[provided by RefSeq, Mar 2009]