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Product datasheet for RR214578

Zcchc12 (NM_001014065) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Zcchc12 (NM_001014065) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Zcchc12
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

>RR214578 representing NM_001014065
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGCTAGCATCCTTTCACGCATGGGTAACAGCCGGGGGCAGAACTCACCCCTGCCACCTTGGGCTCATT
CCATGCTGAGGTCCCTGGGGAGGAGTCTTGGTCCTTTAATGGCCAGCATGGCAGAGAGAAACATGAAGCT
GTTCTCTGGGAGGGCAGAGCCAGCCCAGGGGGAAGAAACCTTTGAAAACTGGCTGAGCCAAGTAACTGCA
GTGCTGCCTGATTGGCATATGCCTGAGGAGGAAAAGGTCAGGCGCCTAATGAGAACCCTTAGAGGCCCTG
CCCGGGAGGTCATGCGTTTGCTCCAGGCTGCCAATCCCTGCCTTGATGTAGAGGATTTTTTGCGTGCAAT
GAAACTGGTCTTTGGGGAGTCTGAGAGCAGTGTGACAGCCCACAGTAAATTTGTTAACACTGTTCAGGAA
CCTGGAGAGAAACCATCCCTGTATGTGATCCGTTTAGAGGTGCAGCTGCAGAATGCTATCCAGGCAGGGG
TTTTTGCTGAGAGAGAGGCAAACCAGGCTCGCCTGCACCAGCTCCTGGTAGGGGCTGAGATGAGTACTGA
CCTTCGATTCAGGCTTAAGAGTCTTCTCCGGGTATATGCAAATGAGCCAGAGCGCCTTCCCAATTTCCTG
GAGTTAATCAGGATGATAAGGGAGGAAGAGGAATGGGAGGAGGCTTTTATTCATCCAAAGCGGCCCAGGA
GATCCCAGTCAGTGGAGAGGGCACTCAGCCCTACATTTCAGAGCTCCCCACCAGTAATGATCAGCAGTAT
TGACTGCAATGTGATAGAGATAGATGACTCTCCTGATGATTCCGATGAGGACGTGATCTTGGTGGAGCCT
GACGACCCACCACTGCCATCCTCAAGTGCAGGGCCATCCTTCCTAGGCAGGGCTGTATCCGAGGACCAAG
TGCTGGTCATTGAGTCCCCTAACATTTTTGAGATCCAGGCTCCTTCCACCAGCAGTGGTGCTGGAAGGAA
GAACAACAATAATTTTGGGGAGCTGCGCAGAGCCAGGAAGCGCAAACACACAGTCCATTGTTCCCACTGT
GGTGAGGAGGGTCACTCAAAAGAAACCTGTGACAATGAGAGTGACAGGGGTCAGGTTTTTGAGAATCTGA
TCATCACCCTGCAGGAGCTGACACATACAGAGGAGAGGGCAAGGGAGATCTTTGGAGAAGCCATTGGCCT
CTCTGAACTACAC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

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Protein Sequence:

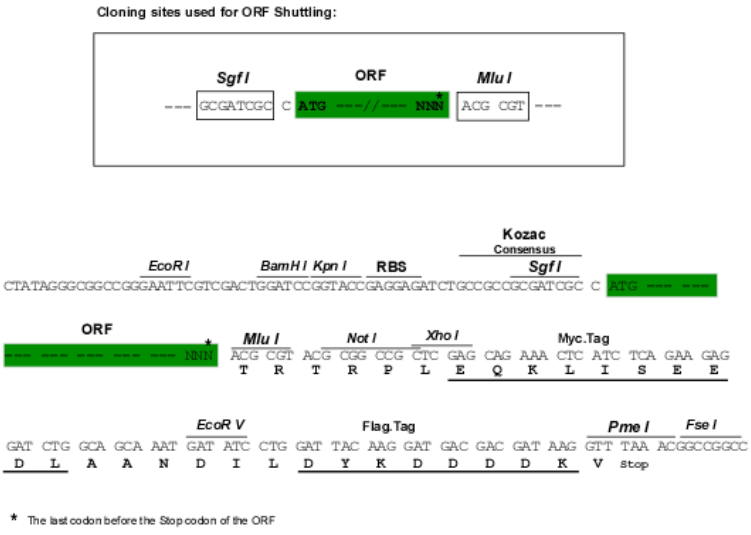
>RR214578 representing NM_001014065
Red=Cloning site Green=Tags(s)

MASILSRMGNSRGQNSPLPPWAHSMLRSLGRSLGPLMASMAERNMKLFSGRAEPAQGEETFENWLSQVTA
VLPDWHMPEEEKVRRLMRTLRGPAREVMRLLQAANPCLDVEDFLRAMKLVFGESESSVTAHSKFVNTVQE
PGEKPSLYVIRLEVQLQNAIQAGVFAEREANQARLHQLLVGAEMSTDLRFRLKSLLRVYANEPERLPNFL
ELIRMIREEEEWEEAFIHPKRPRRSQSVERALSPTFQSSPPVMISSIDCNVIEIDDSPDDSDEDVILVEP
DDPPLPSSSAGPSFLGRAVSEDQVLVIESPNIFEIQAPSTSSGAGRKNNNNFGELRRARKRKHTVHCSHC
GEEGHSKETCDNESDRGQVFENLIITLQELTHTEERAREIFGEAIGLSELH

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001014065

ORF Size: 1203 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_001014065.2, NP_001014087.1

RefSeq Size: 2106 bp

RefSeq ORF: 1206 bp

Locus ID: 313436

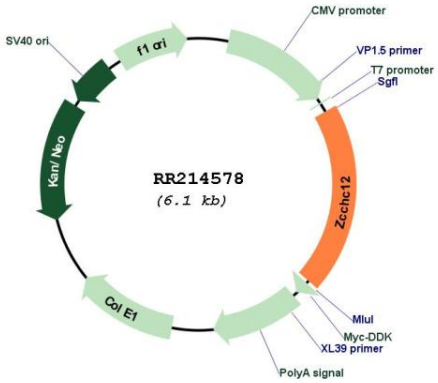
UniProt ID: Q5HZA3

Cytogenetics: Xq35

MW: 45.2 kDa

Gene Summary: Transcriptional coactivator in the bone morphogenetic protein (BMP)-signaling pathway. It positively modulates BMP signaling by interacting with SMAD1 and associating with CBP in the transcription complex. It contributes to the BMP-induced enhancement of cholinergic-neuron-specific gene expression (By similarity).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RR214578