

Product datasheet for **RC206924**

ZCCHC12 (NM_173798) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ZCCHC12 (NM_173798) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	ZCCHC12
Synonyms:	PNMA7A; SIZN; SIZN1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC206924 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCTAGCATCATTGCACGTGTCGGTAACAGCCGGCGGCTGAATGCACCCTTGCCGCTTGGGCCATT
CCATGCTGAGGTCCCTGGGGAGAAGTCTCGGTCTATAATGGCCAGCATGGCAGACAGAAACATGAAGTT
GTTCTCGGGAGGGTGGTCCAGCCCAAGGGGAAGAAACCTTTGAAAACCTGGCTGACCCAAGTCAATGGC
GTCCTGCCAGATTGGAATATGTCTGAGGAGAAAAGCTCAAGCGCTTGATGAAAACCTTAGGGGCCCTG
CCCGCAGGTCATGCGTGTGCTCAGGCGACCAACCTAACCTAAGTGTGGCAGATTTCTTGCGAGCCAT
GAAATTGGTGTTGGGGAGTCTGAAAGCAGTGTGACTGCCATGGTAAATTTTTAACACCTACAAGT
CAAGGGGAGAAAGCCTCCCTTTATGTGATCCGTTTAGAGGTGCAGCTCCAGAACGCTATTCAGGCAGGCA
TTATAGCTGAGAAAGATGCAAACCGGACTCGCTTGCGAGCTCCTTTTAGGCGGTGAGCTGAGTAGGGA
CCTCCGACTCAGACTTAAGGATTTCTCAGGATGTATGCAATGAGCAGGAGCGGCTTCCCAACTTCTG
GAGTTAATCAGAAATGGTAAGGGAGGAAGAGGATTGGGATGATGCTTTTATAACGGAAGCGTCCAAAA
GGTCTGAGTCAATGGTGGAGAGGGCAGTCAGCCCTGTGGCATTTCAGGGCTCCCCACCGATAGTGATCGG
CAGTGTGACTGCAATGTGATAGAGATAGATGATACCTCGACGACTCCGATGAGGATGTGATCCTGGTG
GAGTCTCAGGACCCTCCACTTCCATCCTGGGGTGCCCTCCCTCAGAGACAGGGCCAGACCTCAGGAT
AAGTGTGGTCAATTGATCCCCCACAATTCAGGGCTCAGTTTCTTCCACAGTGGTGGTTCTGGCTA
TAAGAATAACGGTCTGGGGAGATGCGTAGAGCCAGGAAGCGAAAAACACAATCCGCTGTTGATTGT
GGTGGGAAGGCCACTCAAAGAAACCTGTGACAACGAGAGTGACAAGGCCAGGTTTTTGAAGATTTGA
TCATCACTCTCCAGGAGCTGACCATACTGAGATGGAGAGGTCAAGAGTGGCCCTGGCGAATAAATGA
CTTCTCTGAGCCACTG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC206924 protein sequence
Red=Cloning site Green=Tags(s)

MASIIARVGNRRRLNAPLPPWAHSMRLSLGRSLGPIMASMADRNMKLFSGRVVPAQGEETFENWLTQVNG
 VLPDWNMSEEEKLRMLKTLRGPAREVMRVLQATNPNSVADFLRAMKLVFGESESVTAHGKFFNTLQA
 QGEKASLYVIRLEVQLQNAIQAGIIAEKDANRTRLQQLLLGGELSRDLRLRLKDFLRMYANEQERLPNFL
 ELIRMVREEEDWDDAFIKRKRPKRSESMVERAVSPVAFQGSPPIVIGSADCNVIEIDDTLDDSDDEVILV
 ESQDPPLPSWGAPPLRDRARPQDEVLVIDSPHNSRAQFPSTSGSGYKNNPGEMRRARKRKHTRCSYC
 GEEGHSKETCDNESDKAQVFENLIITLQELTHTEMERSRVAPGEYNDFSEPL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6321_e07.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



* The last codon before the Stop codon of the ORF

ACCN: NM_173798

ORF Size: 1206 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_173798.4](#)

RefSeq Size: 2212 bp

RefSeq ORF: 1209 bp

Locus ID: 170261

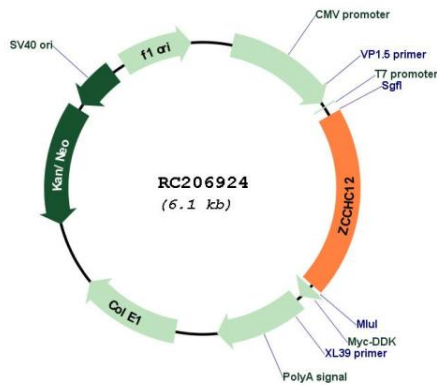
UniProt ID: [Q6PEW1](#)

Cytogenetics: Xq24

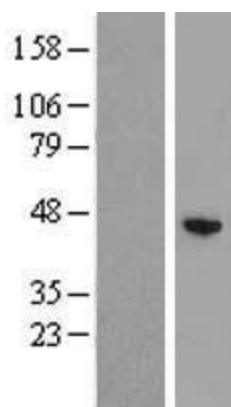
MW: 45.4 kDa

Gene Summary: This gene encodes a downstream effector of bone morphogenetic protein (BMP) signalling. This protein contains a zinc finger domain and functions as a transcriptional coactivator. Variation in this gene may be associated with X-linked cognitive disability. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Aug 2015]

Product images:



Circular map for RC206924



Western blot validation of overexpression lysate (Cat# [LY406574]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC206924 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).