

Product datasheet for RC202589

ZC4H2 (NM 018684) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids

Product Name: ZC4H2 (NM_018684) Human Tagged ORF Clone

Tag: Myc-DDK
Symbol: ZC4H2

Synonyms: HCA127; KIAA1166; MCS; MRXS4; WRWF; WRWFFR; WWS

Mammalian Cell Neomycin

Selection:

Vector:pCMV6-Entry (PS100001)E. coli Selection:Kanamycin (25 ug/mL)

ORF Nucleotide >RC202589 ORF sequence

Sequence: Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC

GCCGCGATCGCC

ATGGCAGATGAGCAAGAAATCATGTGCAAATTGGAAAGCATTAAAGAGATCAGGAACAAGACCCTGCAGA
TGGAGAAGATCAAGGCTCGTTTGAAGGCTGAGTTTGAGGCACTTGAGTCAGAGGAAAAGGCACCTGAAGGA
ATACAAGCAGGAGATGGACCTTCTGCTACAGGAGAAGATGGCCCATGTGGAGGAACTCCGACTGATCCAC
GCTGACATCAATGTGATGGAAAACACTATCAAACAATCTGAGAATGACCTAAACAAGCTGCTAGAGTCTA
CAAGGAGGCTGCATGATGAGGAAAACACTATCAAAAGAACATGTGGATGCCCTGCGCATGACTCTGGGCCT
GCAGAGGCTCCCTGACTTGTGTGAAGAAGAAGAAGCATTCTTTGGATTACTTTGAGAAGCAGAAAGCA
GAATGGCAGACAGAACCTCAGGAGCCCCCATCCCTGAGTCCCTGGCCCTGCAGCCGCTGCCCCCAAC
AGCTCCAAGTGGCTAGGAAGCAGGATACTCGGCAGACCGCCTTCAGGCAGCAGCCCCCACCTATGAA
GGCCTGCTTGTCATGCACAGAAATCACCAGCAAATGCACCTATATGCCCTCTTTGCAAGGCCAAGAGT

CGGTCCCGGAACCCCAAAAAGCCGAAACGGAAGCAGGATGAA

 ${\color{red} \textbf{ACGCGT}} \textbf{ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT}$

ACAAGGATGACGACGATAAGGTTTAA



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ZC4H2 (NM_018684) Human Tagged ORF Clone - RC202589

Protein Sequence: >RC202589 protein sequence

Red=Cloning site Green=Tags(s)

MADEQEIMCKLESIKEIRNKTLQMEKIKARLKAEFEALESEERHLKEYKQEMDLLLQEKMAHVEELRLIH ADINVMENTIKQSENDLNKLLESTRRLHDEYKPLKEHVDALRMTLGLQRLPDLCEEEEKLSLDYFEKQKA EWQTEPQEPPIPESLAAAAAAAAQQLQVARKQDTRQTATFRQQPPPMKACLSCHQQIHRNAPICPLCKAKS

RSRNPKKPKRKQDE

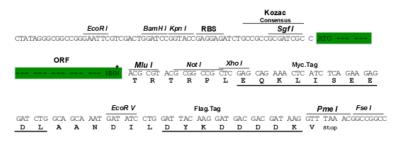
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6405 f12.zip

Restriction Sites: Sgfl-Mlul

Cloning Scheme:





^{*} The last codon before the Stop codon of the ORF

ACCN: NM_018684

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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with

0.22um filter is required.

RefSeq: <u>NM 018684.4</u>

 RefSeq Size:
 2812 bp

 RefSeq ORF:
 675 bp

 Locus ID:
 55906

 UniProt ID:
 Q9NQZ6

 Cytogenetics:
 Xq11.2

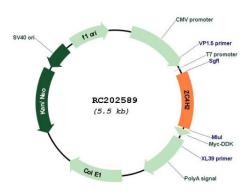
 MW:
 26.2 kDa

Gene Summary: This gene encodes a member of the zinc finger domain-containing protein family. This family

member has a C-terminal zinc finger domain that is characterized by four cysteine residues and two histidine residues, and it also includes a coiled-coil region. This protein has been detected as an autoantigen in hepatocellular carcinoma patients. This gene has been identified as a potential candidate for X-linked cognitive disability. Alternative splicing results

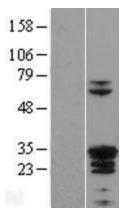
in multiple transcript variants. [provided by RefSeq, Aug 2011]

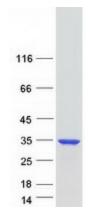
Product images:



Circular map for RC202589







Western blot validation of overexpression lysate (Cat# [LY412985]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC202589 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).

Coomassie blue staining of purified ZC4H2 protein (Cat# [TP302589]). The protein was produced from HEK293T cells transfected with ZC4H2 cDNA clone (Cat# RC202589) using MegaTran 2.0 (Cat# [TT210002]).