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Product datasheet for RC229415

ZCCHC2 (NM_017742) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ZCCHC2 (NM_017742) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	ZCCHC2
Synonyms:	C18orf49
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

>RC229415 ORF sequence, codon optimized.
Due to the complexity of NM_017742, the ORF clone is codon optimized for mammalian Expression.
The nucleotide sequence differs from the reference sequence, yet the amino acid sequence remains identical.

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

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGTTGCGAATGAAACTGCCCTTGAAGCCCACACATCCCGCGGAGCCGCCACCCGAAGCCGAGGAGCCCG
AAGCAGATGCGCGCCCAGGAGCCAAGGCCCCCAGTAGACGGCGGCGGGATTGCCGCCCGCCCCCGCCTCC
TCCCCCGCCAGCCGGTCCATCCCGCGGGCCATTGCCTCCTCCCCCGCCGCCCAGAGGTTTGGGGCCTCCA
GTAGCAGGGGGGGCTGCTGCAGGGGCCGGAATGCCCGGCGGTGGAGGCGGTCCTTCTGCCGCACTCCGGG
AACAGGAAAGAGTGTATGAGTGGTTTGGCCTGGTGCTGGGTTCTGCTCAACGACTCGAGTTTATGTGTGG
GCTCCTGGACCTTTGCAACCCTCTGGAGCTGCGATTCCTTGGATCTTGCCTCGAGGACCTGGCAAGGAAG
GACTATCATTACCTGCGCGACTCCGAAGCTAAAGCTAACGGCCTCTCAGACCCAGGACCCCTGGCCGACT
TCCGCGAACCGGCTGTACGGTCCAGGCTGATTGTCTATCTTGCACTGCTGGGGTCTGAAAATAGGGAGGC
GGCAGGCCGGTTGCACCGACTTCTGCCTCAGGTAGACAGCGTGCTGAAATCTTTGCGCGCAGCGCGGGGA
GAGGGGAGTAGGGGCGGTGCCGAGGATGAGCGGGGCGAGGATGGTGACGGAGAGCAGGACGCCGAGAAAG
ACGGGTCAGGGCCTGAGGGCGGCATAGTGGAACCCCGGGTTGGGGGAGGCCTCGGCTCTCGCGCCCAAGA
GGAGCTCCTGCTGCTGTTCACAATGGCTTCCTTGCATCCTGCCTTCTCCTTTCACCAGCGCGTGACACTC
AGAGAGCACCTGGAGCGCCTGCGAGCTGCTTTGAGAGGTGGGCCAGAAGACGCCGAGGTGGAGGTCGAAC
CTTGCAAATTTGCTGGCCCCCGGGCTCAGAATAACTCCGCACACGGAGACTACATGCAGAACAACGAGAG
TTCACTGATTGAGCAGGCCCCTATTCCACAAGATGGCCTGACTGTCGCCCCACACCGGGCTCAGCGCGAA
GCCGTACACATAGAGAAAATTATGCTCAAGGGTGTGCAGCGAAAGCGGGCCGACAAATACTGGGAGTACA

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CCTTTAAGGTGAATTGGTCTGATCTGTCCGTGACAACCGTGACAAAGACTCACCAGGAGCTCCAAGAGTT
TCTCCTGAAGCTGCCAAAGGAACTTTCATCCGAAACTTTTGATAAAACAATCTTGCGCGCTCTTAATCAG
GGCTCTTTGAAACGCGAGGAGCGGAGGCACCCTGACTTGGAACCCATTTTGCGGCAACTCTTTTCCTCCT
CATCCCAGGCCTTTTTGCAGAGCCAAAAGGTTCACAGCTTTTTCCAAAGCATCTCTTCTGATTCATTGCA
CTCAATTAACAACCTGCAGAGTTCCCTGAAGACCAGTAAGATCCTGGAGCATCTGAAGGAGGACTCTAGC
GAGGCAAGCTCTCAAGAAGAGGACGTGCTTCAGCATGCTATTATTCACAAGAAGCACACAGGCAAATCAC
CCATCGTCAATAATATTGGAACTTCCTGTAGTCCCCTTGACGGACTCACGATGCAATACAGCGAGCAAAA
CGGAATCGTCGATTGGAGGAAACAGTCCTGCACCACGATCCAACACCCGGAGCATTGTGTCACCAGCGCT
GATCAGCATAGTGCAGAAAAAAGGAGCTTGAGCTCAATTAACAAGAAAAAAGGTAAGCCCCAGACTGAGA
AGGAAAAGATCAAGAAGACAGACAACAGACTTAATTCTCGGATCAATGGCATTAGGCTGTCCACCCCCCA
GCATGCGCACGGCGGCACTGTTAAGGACGTGAATCTGGATATCGGATCTGGACACGATACCTGCGGGGAG
ACAAGCAGTGAATCATACAGTTCTCCTTCTAGCCCTAGGCACGACGGGAGAGAATCATTCGAAAGCGAAG
AGGAGAAAGATCGCGATACCGATTCAAATTCCGAGGACAGCGGCAATCCCTCAACCACACGCTTCACGGG
TTATGGCAGTGTCAATCAGACCGTCACTGTTAAGCCCCCTGTACAGATTGCTTCCCTGGGAAATGAGAAT
GGCAATCTCCTGGAAGATCCACTCAATAGCCCCAAGTACCAGCATATTTCTTTCATGCCAACCTTGCACT
GCGTAATGCATAATGGCGCCCAGAAATCAGAAGTAGTTGTCCCAGCTCCCAAGCCAGCTGATGGAAAAAC
GATTGGGATGCTGGTCCCCTCTCCGGTCGCTATAAGTGCCATCAGAGAATCTGCGAACAGCACACCCGTG
GGGATACTGGGACCAACCGCGTGCACAGGTGAGAGCGAAAAACATCTCGAGCTCCTGGCCAGCCCCTTGC
CAATCCCTAGCACATTTCTCCCTCACTCTTCTACTCCCGCTCTTCATCTGACCGTCCAGCGCCTTAAGCT
GCCTCCACCCCAGGGCAGTTCAGAGTCTTGTACGGTCAACATACCACAGCAACCCCCAGGTTCACTGTCA
ATTGCTAGTCCAAACACAGCGTTCATTCCTATTCATAACCCGGGGAGTTTCCCCGGGTCACCAGTGGCGA
CCACCGACCCAATCACCAAGAGCGCGTCCCAGGTTGTGGGACTGAACCAGATGGTACCTCAAATTGAAGG
TAACACAGGCACTGTCCCACAACCTACCAACGTCAAAGTCGTGCTGCCCGCAGCTGGCCTCTCTGCCGCA
CAGCCACCCGCTTCCTATCCACTTCCAGGGAGTCCGCTGGCGGCGGGTGTGCTCCCCTCTCAGAACAGCT
CTGTCCTGTCCACTGCAGCTACCTCTCCCCAGCCAGCCTCAGCTGGAATATCCCAGGCCCAGGCCACGGT
GCCCCCAGCTGTTCCTACTCACACCCCAGGCCCTGCCCCATCCCCATCTCCCGCTCTCACGCATTCAACA
GCGCAATCCGATAGCACCAGCTATATCAGTGCTGTCGGCAATACCAACGCTAACGGGACAGTGGTTCCCC
CACAGCAGATGGGATCCGGACCTTGTGGAAGTTGTGGCAGGCGATGTTCTTGCGGGACAAACGGCAATCT
TCAACTGAATAGCTACTACTACCCAAACCCGATGCCTGGACCTATGTACAGGGTTCCATCTTTCTTCACC
CTGCCGTCAATTTGCAATGGCAGCTACCTGAATCAAGCACACCAGAGCAACGGCAATCAGCTGCCTTTTT
TTCTTCCACAGACTCCTTATGCGAACGGCCTGGTCCATGATCCCGTTATGGGATCCCAGGCCAACTACGG
CATGCAGCAGATGGCCGGCTTTGGTAGATTCTATCCTGTGTATCCAGCCCCAAATGTGGTGGCCAACACG
TCCGGCTCCGGCCCCAAGAAGAACGGTAATGTGAGCTGCTATAACTGTGGGGTGTCCGGTCATTACGCGC
AGGACTGCAAGCAGTCTTCTATGGAGGCAAACCAGCAAGGTACATATCGGCTTCGATATGCCCCACCCCT
CCCACCCTCCAATGACACTTTGGACTCCGCAGAC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

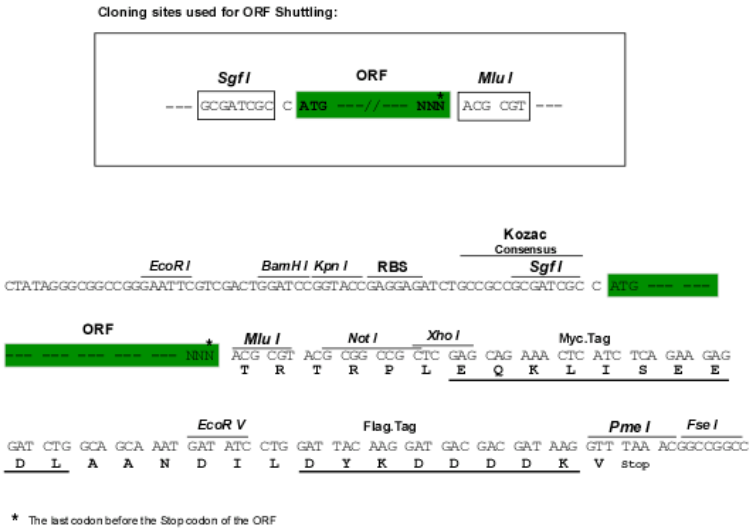
>RC229415 representing NM_017742
Red=Cloning site Green=Tags(s)

MLRMKLPLKPTHPAEPPPEAEEPEADARPGAKAPSRRRRDCRPPPPPPPPAGPSRGPLPPPPPPRGLGPP
VAGGAAAGAGMPGGGGGPSAALREQERVYEWFGLVLGSAQRLEFMCGLLDLCNPLELRFLGSCLEDLARK
DYHYLRDSEAKANGLSDPGPLADFREPAVRSRLIVYLALLGSENREAAGRLHRLLPQVDSVLKSLRAARG
EGSRGGAEDERGEDGDGEQDAEKDGSGPEGGIVEPRVGGGLGSRAQEELLLLFTMASLHPAFSFHQRVTL
REHLERLRAALRGGPEDAEVEVEPCKFAGPRAQNNSAHGDYMQNNESSLIEQAPIPQDGLTVAPHRAQRE
AVHIEKIMLKGVQRKRADKYWEYTFKVNWSDLSVTTVTKTHQELQEFLLKLPKELSSETFDKTILRALNQ
GSLKREERRHPDLEPILRQLFSSSSQAFLQSQKVHSFFQSISSDSLHSINNLQSSLKTSKILEHLKEDSS
EASSQEEDVLQHAIIHKKHTGKSPIVNNIGTSCSPLDGLTMQYSEQNGIVDWRKQSCTTIQHPEHCVTSA
DQHSAEKRSLSSINKKKGKPQTEKEKIKKTDNRLNSRINGIRLSTPQHAHGGTVKDVNLDIGSGHDTCGE
TSSESYSSPSSPRHDGRESFESEEEKDRDTDSNSEDSGNPSTTRFTGYGSVNQTVTVKPPVQIASLGNEN
GNLLEDPLNSPKYQHISFMPTLHCVMHNGAQKSEVVVPAPKPADGKTIGMLVPSPVAISAIRESANSTPV
GILGPTACTGESEKHLELLASPLPIPSTFLPHSSTPALHLTVQRLKLPPPQGSSESCTVNIPQQPPGSLS
IASPNTAFIPIHNPGSFPGSPVATTDPITKSASQVVGLNQMVPQIEGNTGTVPQPTNVKVVLPAAGLSAA
QPPASYPLPGSPLAAGVLPSQNSSVLSTAATSPQPASAGISQAQATVPPAVPTHTPGPAPSPSPALTHST
AQSDSTSYISAVGNTNANGTVVPPQQMGSGPCGSCGRRCSCGTNGNLQLNSYYYPNPMPGPMYRVPSFFT
LPSICNGSYLNQAHQSNGNQLPFFLPQTPYANGLVHDPVMGSQANYGMQQMAGFGRFYPVYPAPNVVANT
SGSGPKKNGNVSCYNCGVSGHYAQDCKQSSMEANQQGTYRLRYAPPLPPSNDTLDSAD

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



* The last codon before the Stop codon of the ORF

ACCN: NM_017742

ORF Size: 3534 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_017742.4, NM_017742.5, NP_060212.4

RefSeq Size: 5559 bp

RefSeq ORF: 3537 bp

Locus ID: 54877

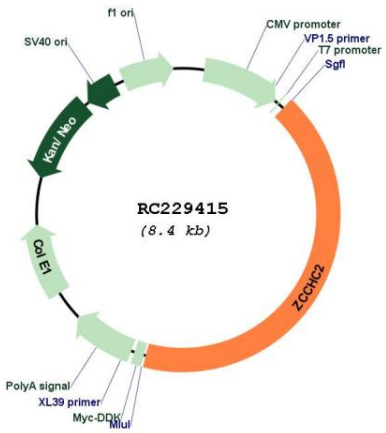
UniProt ID: Q9C0B9

Cytogenetics: 18q21.33

Domains: zf-CCHC

MW: 125.9 kDa

Product images:



Circular map for RC229415