

## Product datasheet for **RC201941**

### ZNF41 (NM\_007130) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	ZNF41 (NM_007130) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	ZNF41
Synonyms:	MRX89
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide  
Sequence:

>RC201941 ORF sequence  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGGATCGCC**

ATGGCAGCTAATGGGACTCTCCCCATGGTCCCCGGCCCTGGCTGCAGAGGGACGTGGCAGCTCATGTG  
AGGCTTCAGTGTCATTTGAGGACGTGACTGTGGACTTCAGCAAGGAGGAGTGGCAGCACTTGGACCTGC  
CCAGAGACGCCTGTACTGGGATGTGACACTAGAGAACTACAGCCACCTGCTCTCAGTGGGGTACCAAATT  
CCCAAGTCAGAGGCTGCCTTCAAGTTGGAGCAAGGAGAGGGGCCATGGATGCTGGAGGGGAAGCCCCAC  
ATCAGAGCTGTTCAAGTGAGGCTATTGGGAAAATGCAGCAACAGGGAAATTCCTGGAGGAATTTCTTCCA  
CTGTGAGAGATTTGATCAACCCATAGGAGAAGATTCATTATGTTCTATTTTAGAAGAAGTGTGGCAAGAT  
AATGACCAGCTAGAGCAACGTGAGGAAAACCAGAATAACCTTTTAAAGTCATGTGAAAGTATTGATTAAGG  
AGAGGGGCTATGAACATAAAAAATTGAAAAAATAATTCATGTGACTACCAAGCTTGTTCCTTCAATTA  
AAGACTCCATAACTGTGACACAATTTTGAAGCATACTTTAAACTCACATAATCATAATAGAAACAGTGCA  
ACAAAGAACCTTGGCAAGATTTTGGAAATGGTAAACAATTTCCCCATAGCCCTTCTCTACTAAGAATG  
AGAATGCTAAAACAGGAGCAAATTCCTGTGAACATGACCCTATGAAAAACATCTCAGCCACAAAACAGC  
TCCCACCCACCATCAGAAAATTCATCCTGAGGAGAAGCTTTATGTGTGACTGAATGTGTAATGGGCTTC  
ACTCAGAAGTCACATCTGTTGAGCATCAGAGAATTCATGCTGGAGAAAAGTCCCGTGAATGTGACAAAA  
GCAACAAAGTCTTCCCCAGAAAACCCAGGTTGATGTACATCCAAGTGTTATACAGGAGAAAAACCTA  
TCTGTGACTCAATGTGGGAAAGTCTTTACCCTCAAATCAAACCTCATTACACATCAAAAAATTCATACC  
GGGCAGAAAACCTACAAATGCAGTGAATGTGAAAAGCCTTTTCCAGAGATCAGACCTCTTTAGACATC  
TGAGAATTCATACAGGAGAAAAACCTTATGAATGCAGTGAATGTGAAAAGGCTTCTCCAGAACTCAGA  
CCTCAGTATACATCAGAAAACCTATACCCGGAGAGAAAACACTATGAATGCAATGAATGTGGGAAGGCTTTC  
ACAAGAAAATCAGCACTCAGGATGCATCAGAGAATCCACACGGGAGAGAAAACCTTATGTATGCGCTGACT  
GTGGGAAGGCCTTCATCCAGAAATCACATTTCAACACACATCAGAGAATTCATACTGGAGAAAAGCCGTA  
TGAATGCAGTGAATGTGGGAAATCCCTTCACTAAGAAGTCACAACTCCATGTGCATCAAAGAATTCACACC  
GGAGAGAAAACCTATATATGTACAGAATGTGAAAAGGCTTCACTCACAGGACAAAACCTCACCACACATC  
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CGTTTGTCTGAATGCGGGAAGGCCTTTATCCAGAAATCGCACTTCATTGCGCATCATAGAATCCATACT  
GGAGAGAAGCCTTATGAATGCAGCGACTGTGGGAAATGCTTCACTAAGAAGTCACAACTCCGTGTGCATC  
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TCTCATAACACATCAGAAAATCCCACTAGGGAGAAAACCTATGAATGTGGTGAATGCGGGAAAACCTTC  
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TGCTTGTACAGAATGTGAGAAGGCTTTACTGACAGATCGAATCTCATTAAACACCAGAAAATGCATAGT  
GGAGAAAACGCTATAAAGCCAGTGAC

**ACGCGT**ACGCGGCCGCTCGAGCAGAAAACCTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >RC201941 protein sequence  
Red=Cloning site Green=Tags(s)

MAANGDSPWPALAAEGRGSSCEASVSFEDVTVDFSKEEWQHLDPQRRLYWDVTLENYSHLLSVGYQI  
PKSEAAFLEQGEWPWLEGEAPHQSCSGEAIQKMQQGGIPGGIFFHCERFDQPIGEDSLCSILEELWQD  
NDQLEQRQENQNNLLSHVKVLIKERGYEHKNIKIIHVTTKLVPSIKRLHNCDTILKHTLNSHNHRNSA  
TKNLGKIFGNGNNFPHSPSSTKNENAKTGANSCEHDHYEKHLSHKQAPTHHQKIHPEEKLYVCTECVMGF  
TQKSHLFEHQRIHAGEKSRECDKSNKVFQKQVQVDVHPSVYTGEKPYLCTQCQGVFTLKSNIHTQKIHT  
GQKPYKCSECGKAFFQRSDFRHLRIHTGEKPYECSECGKGFSDLSIHQKTHTEKHYECNECGKAF  
TRKSALRMHQRIHTGEKPYVCADCGKAFIQKSHFNTHQRIHTGEKPYECSDCGKSFTKKSQLHVHQRIHT  
GEKPYICTECGVFTHRTNLTHQKTHTEKPYMCAECGKAFTDQSNLIKHKTHTEKPYKCNCGKAF  
IWKSRLLKIHQKSHIGERHYECKDCGKAFIQKSTLSVHQRIHTGEKPYVCECGKAFIQKSHFIAHHRHT  
GEKPYECSDCGKCFTKKSQLRVHQKIHTGEKPNICAECGKAFTDRSNLIHTQKIHTREKPYECGDCGKTF  
TWKSRLLNIHQKSHIGERHYECKDCGKAFIQKATLSMHQIHTGKKPYACTECQKAFDRSNLIKHKMHS  
GEKRYKASD

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:** [https://cdn.origene.com/chromatograms/mk6324\\_d08.zip](https://cdn.origene.com/chromatograms/mk6324_d08.zip)

**Restriction Sites:** Sgfl-Mlul

**Cloning Scheme:**


**ACCN:** NM\_007130

**ORF Size:** 2337 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\\_007130.3](#)

**RefSeq Size:** 4375 bp

**RefSeq ORF:** 2340 bp

**Locus ID:** 7592

**UniProt ID:** [P51814](#)

**Cytogenetics:** Xp11.3

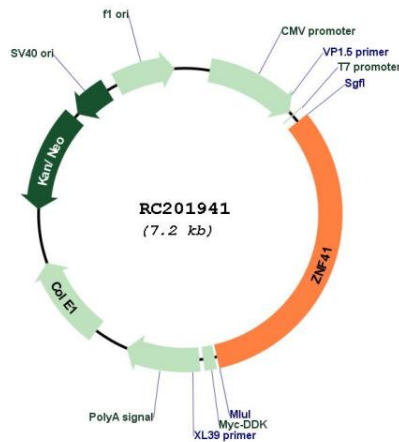
**Domains:** KRAB, zf-C2H2

**Protein Families:** Transcription Factors

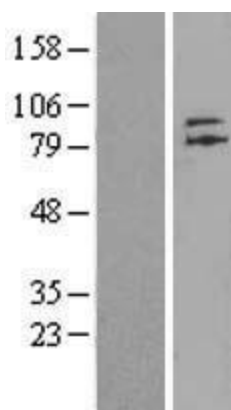
**MW:** 89.1 kDa

**Gene Summary:** This gene encodes a protein that contains KRAB-A and KRAB-B domains multiple zinc finger DNA binding motifs and finger linking regions characteristic of the Kruppel family. An initial study suggested that this gene may be associated with X-linked cognitive disability, but a later study has called this finding into question (PMID:23871722).[provided by RefSeq, Apr 2016]

**Product images:**



Circular map for RC201941



Western blot validation of overexpression lysate (Cat# [LY407090]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with [RC213088] using transfection reagent MegaTran 2.0 (Cat# [TT210002]).