

## Product datasheet for **RC212318**

### ZNF473 (NM\_015428) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	ZNF473 (NM_015428) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	ZNF473
Synonyms:	ZFP100; ZN473
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide Sequence:**

>RC212318 ORF sequence  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGCTGAGGAATTTGTGACCTCAAGGATGTCGGCATGGACTTCACCTGGGAGACTGGGAGCAGCTCG  
 GGCTGGAACAGGGGACACGTTCTGGGACACAGCGTTGGACAATTGCCAGGACCTTTCCTGCTGGACCC  
 CCCAAGACCCAACCTGACCTCCCACCCAGATGGCAGTGAAGATCTGGAGCCTCTGGCAGGAGGAAGCCCA  
 GAAGCAACAAGCCCTGATGTGACTGAGACCAAGAAGCTCTCCTCTGATGGAGGATTTCTCGAAGAAGGAT  
 TCTCCCAGGAGATTATAGAGATGTTATCCAAGGATGGCTTCTGGAAGCTCAATTTTCGAGAAGCCTGTAT  
 AGAGGACACCTGGTTAGATAGTTTGTAGGCGATCCAGAAAGTCTTCTGAGGTCTGATATTGCCACCAAC  
 GGGGAAAGTCCCACGGAATGCAAGAGTCATGAATTAAGAGAGGACTCAGTCCTGTGTCCACCGTTTCCA  
 CGGGAGAAGATTCATGGTGCATAATGTTTCTGAAAAGACCTCACACCAGCTAAGTCTAAGGAATATAG  
 GGGTGAGTTTTTCTCCTACTCCGACCACAGCCAGCAGGATTCTGTTCAGGAAGGGGAGAAACCATATCAA  
 TGTAGTGAATGTGGGAAAAGCTTCAGTGGGAGTTACCGTCTTACCCAGCAGTGGATCACTCATACTAGGG  
 AGAAACCCACTGTCCATCAAGAGTGTGAGCAAGGTTTTGACCGGAATGCTTCCCTTTCTGTGTATCCGAA  
 AACTCACACGGGCTACAAATCTATGTGTGAATGAATATGGGACAACCTTTAGTCAGAGTACATACCTG  
 TGGCATCAGAAAACCTCACACTGGAGAAAAACCATGTAAGAGTCAAGATAGTGACCACCCACCCAGTCATG  
 ACACACAGCCTGGTGAGCATCAGAAAACCTCACACAGATAGTAAGTCTACAAGTGAACGAATGCGGCAA  
 GGCTTTTACCCGGATCTTCCACCTTACTCGGCACCAGAAGATCCACACTCGGAAACGCTATGAGTGTTC  
 AAGTGCCAGGCGACCTTCAACTTGAGAAAACACCTCATCAACATCAGAAAACCTACGCTGCAAAAACTA  
 CCTCTGAGTGTGAGGAGTGTGGGAAGATTTTTAGGCACAGTTCGCTGCTCATTGAACACCCAGGCTTTCA  
 TGCTGGAGAGGAGCCTTATAAGTGTAAACGAACGTGGGAAATCCTTCAGGCATAACTCTACCTAAAGATC  
 CATCAGAGGGTTACAGTGGAGAGAAGCCTTACAATGCAGTGTGAGTGTGGGAAGGCTTCCACCGGCACA  
 CTCACCTTAATGAACATCGGCGAATTCATACAGGCTACAGACCCACAAAATGTCAGGAATGCGTCAGGAG  
 TTTTCAGCCGGCCCTCACATCTGATGCGACATCAGGCCATTACACCCGAGAAAAGCCCTATAGCTGTGCT  
 GAATGCAAGGAGACTTTACGCGATAACAATCGCCTTGTGCAACACCAGAAAATGCACACTGTCAAAACCC  
 CATATGAATGTCAGGAGTGGGAGAACGCTTCATTTGCGGCTCAACCCTGAAGTCCACGAGAGTGTTC  
 CGCCAGAGAAAAACAAGGATTTTTGTGAGTGGGAAGATCTTGGATCAGAACCCAGAACAGAAAAGAGAAG  
 TGCTTTAAGTGTAAACAAATGTGAGAAAACCTTTAGCTGCAGCAAATACCTAACTCAGCAGAGAGGATTC  
 ACACCAGGGGAGTGAAGCCCTTTGAATGTGACCAGTGTGGGAAAGCCTTTGGCCAAAGTACTCGGCTCAT  
 TCACCATCAAAGAATCCACTCTAGAGTGTGAGGCTGTATAAATGGGGTGTGCAAGGGAAAGCCATCAGCAGT  
 GCCTCCCTTATCAAACTTCACTCCTTCCACACAAAAGGAGCACCCTTTTAAATGTAAACGAATGCGGAAAGA  
 CCTTCAGCCACAGTGCACACCTCTCAAAACATCAGTTAATTCACGCTGGAGAGAAATCCCTTTAAATGTAG  
 TAAGTGTGACAGAGTCTTACCCAGAGAAAACCTTGTTCAGCATGAGCGAACTCATGCCAGAAAAGAAAG  
 CCGTTGGTGTGTAAACGAATGCGGAAAACGTTCCGTGAGAGTCTATGCCTTTCTAAGCATCAGAGAAATTC  
 ACTCAGGTGAGAAGCCCTATGTATGTGATTACTGCGGGAAGGCTTCGGCCTGAGTGTGAGCTTGTCCG  
 CCACCAGAGAATTCACACTGGAGAAAAGCCTTATGTTTGTGAGGAATGCGGAAAAGCCTTACCCAGAGC  
 TCATGCCTTTCTATTACCGGAGAGTTCACACTGGGAGAAAGCCCTACAGATGTGGTGAATGTGGGAAAG  
 CCTTTGCCAGAAAAGCAAATCTAACACAGCACCAGAGAATTCACACAGGGGAGAGCCTTACTCCTGTAA  
 TGTGTGTGGCAAAGCTTTTGTCTCAGTGCCCATCTCAACCAGCAGCTGAGAGTTACACCCAGGAGACA  
 CTTTATCAGTGTCAACGTTGCCAGAAAAGCCTTTCCGGTCCACTCGAGCCTCAGCCGCCATCAGCGTGTAC  
 ACAACAAGCAGCAATACTGCCTG

**ACGCGT**ACGCGGCCGCTCGAGCAGAAAACCTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >RC212318 protein sequence  
 Red=Cloning site Green=Tags(s)

MAEEFVTLKDVGMDFTLGDWEQLGLEQGDTFWDALDNCQDLFLLDPPRPNLTSHPDGSEDLEPLAGGSP  
 EATSPDVTETKNSPLMEDFFEEGFSQEIIEMLSKDGFWNSNFGEACIEDTWLDSLLGDPESLLRSDIATN  
 GESPTTECKSHELKRGLSPVSTVSTGEDSMVHNVSEKTLTPAKSKEYRGEFFSYSDHSQQDSVQEGEKPYQ  
 CSECGKSFSGSYRLTQHWITHTREKPTVHQECEQGFDRNASLSVYPKTHTYGKFFVVCNEYGTTFSQSTYL  
 WHQKTHTEGKPKSQSDSDHPPSHDTQPGEHQKTHDTSKSYNCNECGKAFTRIFHLTRHQIHTRKRYECS  
 KCQATFNLRKHLIQHQKTHAAKTSECQCEGKIFRHSSLLIEHQALHAGEEYPKNERGKSRFRHNSTLKI  
 HQRVHSGEKPKCSECGKAFHRHRLNEHRIHTGYRPHKCQECVRSFSRPSHLMRQAIHTAEKPYSCA  
 ECKETFSDNNRLVQHQMHTVKTPYECQECGERFICGSLKCHESVHAREKQGGFFVSGKILDQNPEQKEK  
 CFKCNKCEKTFSCSKYLQHERIHTRGVVPFECQCGKAFQSTRLIHHQRIHSRVRLYKWGEQGKAISS  
 ASLIKLSFHTKEHPFKCNECGKTFSSAHLKSHQLIHAGENPFKCSKCDRVFTQRNYLVQHERTHARKK  
 PLVCNECGKTFRQSSCLSKHQRIHSGEKPYVCDYCGKAFGLSAELVRHQRIHTGEKPYVQCECGKAFQS  
 SCLSIHRRVHTGEKPYRCGECGKAFAQKANLTQHQRITHTGEKPYSCNVCCKAFVLSAHLNQHLRVHTQET  
 LYQCRCQKAFRCHSSLRHRVHNKQQYCL

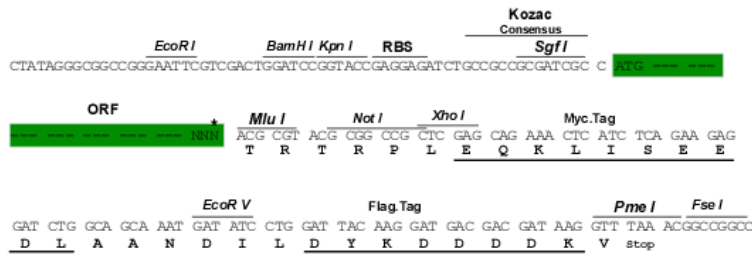
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:** [https://cdn.origene.com/chromatograms/mk6690\\_a04.zip](https://cdn.origene.com/chromatograms/mk6690_a04.zip)

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**

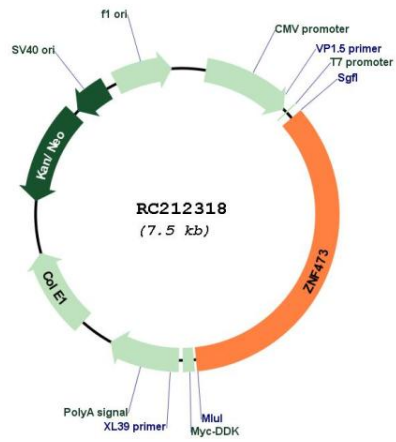
Cloning sites used for ORF Shuttling:



\* The last codon before the Stop codon of the ORF

<b>ACCN:</b>	NM_015428
<b>ORF Size:</b>	2613 bp
<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_015428.4</a>
<b>RefSeq Size:</b>	4711 bp
<b>RefSeq ORF:</b>	2616 bp
<b>Locus ID:</b>	25888
<b>UniProt ID:</b>	<a href="#">Q8WTR7</a>
<b>Cytogenetics:</b>	19q13.33
<b>MW:</b>	100.2 kDa
<b>Gene Summary:</b>	This gene encodes a member of the Krueppel C2H2-type zinc-finger family of proteins. The encoded protein, a component of the U7 snRNP complex, plays a role in histone 3'-end pre-mRNA processing and may be required for cell cycle progression to S phase. Expression level and methylation status of this gene may be correlated with bone mineral density. [provided by RefSeq, Jul 2016]

Product images:



Circular map for RC212318