

Product datasheet for **RC221696**

ZNF582 (NM_144690) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	Myc-DDK
Symbol:	ZNF582
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence: >RC221696 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTGCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGTCCTTGGGTGAGAATTGTTGAGGATGTGGCCATAGTCTTCTCCAAGAAGAATGGCAGTGGTTGG
CACCTGCTCAGAGGGATTTGTACAGAGACGTGATGTTGGAGACCTACAGCAACCTGGTCTCACTGGGTCT
TGCCGTTTCCAACCTGATGTGATCTCTTCTAGAGCAAGGCAAAGAGCCCTGGATGGTGGAGAGAGTG
GTGCTGGAGGCCGTGTGTCAGTATTGGAGTCCAGATATGATACCAAGGAATTTTCCAAGCAGCATG
TTTCCAAGATGATTGGGAATGCAGAAACCAAGTTTGACAGACAACAGGGAAATCCAGACAGACATTTCCAT
CAGATGATCATCAGACATGAAGAAATGCCCACTTTGACCAGCATGCATCCCTTACTTTTTATCAGAAAA
TTCATACTAGAGAAAAACCTTTGGGTATAATAATGTAGAAAAGACTTCTGGCAAAGGAACCTCTTAT
TAATCATCAAGGAATTTATACTAATGAGAAACCTATAAATGTAAGGAATGTGGGAAGGCCTTAAATAT
GGCTCACGACTAATCAACATGAGAATATTCATTCTGGTAAGAAACCATATGAATGTAAGGAATGTGGAA
AGGCCTTCAATTCTGGTTCAAATTTTATACAACATCAGAGAGTTTACTGGTGGAGAAACCGTATGAATG
TAAAGATTGTGAGAAGGCCTTAGTCGAAGCTCACAGTTGATTGAACATCAGCGAAGCTCACACAGCGCGAG
AAACCTATCAGTGAAGGAATGTGGCAAGGCCTTCAATCGGATCTCACATCTTAAAGTACATTATAGAA
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GGCTCAACTCTTACGACATCAGAGAATTCATACCGGTGAGAAACCTATGAGTGCAAAGTATGTGGAA
AGGCCTTTAGAGTGAGCTCACAACCAAGCAACATCAGAGAATTCACACTGGAGAGAAACCTACCAATG
TAAGGTATGTGGTAGGGCCTTCAAACGGGTCTCACATCTTACTGTACATTACAGAAATTCATACAGGTGAA
AAGCCATATGAATGTAAGGAATGTGGGAAGGCTTTTAGTCATTGCTCACAATTGATTCATCATCAGGTTA
TTCACACTGAGAAAAAGCCCTATGAATATAAGGAATGTGAGAAGACCTTGAGTCATGATTCAACTACCGT
TCAACCTCAGAGAAATGCATAATAGAGAAACACATGTGAATATAATAAATGTAGAAAAGCCTTCCATCAGC
AGTTACCCCTTACTAATCATCAGAGAATTTATGTTGGCAAGCAACCATATGAATGGAAGTAATGGGGAAA
GCCATTAGCC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAAATGATATCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC221696 protein sequence
Red=Cloning site Green=Tags(s)

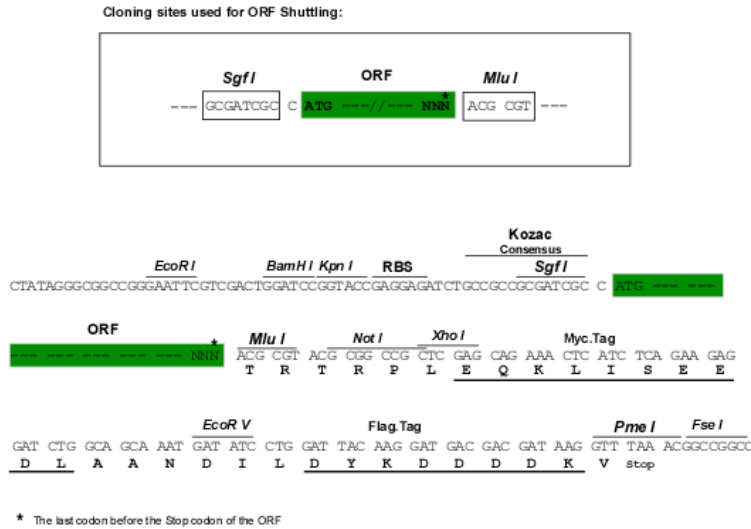
MSLGSELFRDVAIVFSQEEWQWLAPAQRDLYRDVMLETYSNLVSLGLAVSKPDVISFLEQGKEPMMVERV
VSGGLCPVLESRYDTKELFPKHVYEVESQWEIMESLTSYGLECSSFQDDWECRNQFDRQQGNPDRHFH
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KPYQCKEKGAFNRI SHLKVHYRIHTGEKPYACKECGKTFSHRSQLIQHTVHTGRKLYECKEKGAFNQ
GSTLIRHQRHTGEKPYECKVCGKAFRVSSQLKQHQRIHTGEKPYQCKVCGRAFKRVSHTLVHYRIHTGE
KPYECKEKGAFSHCSQLIHHQVIHTEKKPYEYKECEKTLSDSTTVQPQRMHNRETHVNIINVEKPSIS
SYPLLIREFMLASNHMNGSNGESPLA

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6559_e04.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_144690

ORF Size: 1551 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.

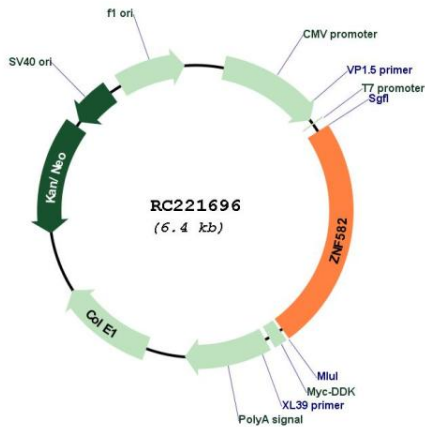
RefSeq: [NM_144690.3](#)

RefSeq Size: 2297 bp

RefSeq ORF:	1554 bp
Locus ID:	147948
UniProt ID:	Q96NG8
Cytogenetics:	19q13.43
Domains:	KRAB, zf-C2H2
Protein Families:	Transcription Factors
MW:	60.5 kDa

Gene Summary: The protein encoded by this gene is a zing finger protein and putative transcription factor that is highly methylated in cervical cancers. Two transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Feb 2016]

Product images:



Circular map for RC221696

Western validation with an anti-DDK antibody
 * L: Control HEK293 lysate R: Over-expression lysate