

Product datasheet for **RG223527**

ZNF304 (NM_020657) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	TurboGFP
Symbol:	ZNF304
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



ORF Nucleotide Sequence: >RG223527 ORF sequence, **codon optimized**.
Due to the complexity of NM_020657, 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)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGCATCGCC**

ATGGCAGCTGCCGTATTGATGGACCGGGTGCAGAGTTGCGTTACGTTTCGAGGACGTCTTCGCTACTTTT
CACGGGAGGAATGGAACTCTTGGAAGAGGCCAGCGTTCTGTACAGAGATGTTATGCTGGAACCTT
CGCCCTCGTGGCACTCTGGGCTTCTGGTGCGAAGCCGAGCAGAGGCTCCAGCGAACAGTCCGTGAGT
GTGGAGGGGTGTACAGGTTGCGACAGCTGAAAGCGGCTGTTCCAAAAGCCCATCCATGTGAGATGT
GCGATCCTCTGCTGAAGGACATACTGCACCTGGCGGAACACCAGGGCAGTCATCTCACTAAAAGCTGTG
CACGCGCGGCTTGTGTAGGCGACGCTTCTTTTCTCAGCCAACTTTTACCAGCACCAAAAGCAACATAAT
GGAGAAAAATGTTTTTCGCGCGATGATGGAGGAGCTTCCTTTGTAAGAGCTGTACCGTGATATGTTGG
GAAGAAGTTTTACCTGCAGAGAGGAAGGCATGGACCTGCCGACTCATCAGGCTTTTTTTCAGCACCAGAC
TACATACAATCGGGTATCACCTGTGCGGCACTGAATGTATGGAGTCTTTTCCCATAGCTCATCTCTG
CGCCAGCACAGGGTGACTATGATGGACAAATGCTTTTCTCTTGGGAGATGAAGGAAAGGCGTTCTTGG
ATACGTTACGTTGCTTGATTACAGATGACCCACGAGAGGTGCGACCATTCGGTGTCTGCCATGCGG
TAACGTGTTTAAAGAAAAAGCGCCCTGATCAACCACCGCAAAATTCATTCCGGAGAGATAAGTCACGTT
TGTAAGGAATGTGGCAAGGCATTTATTCATCTGCATCACCTTAAATGCACCAGAAATTTACACCGGAA
AGAGACACTATACATGTTCTGAGTGTGGGAAGGCTTTCAGTCGCAAGGACACTCTGGCACAGCACCAAAG
GGTCCATACGGGGAGCGCCCTTATGATTGCTCTGAGTGTGGAAAGGCGTATAGCCGAAGCTCTCATCTG
GTGCAACATCAGCGGATACACACGGGGAGCGACCTACAAATGCAATGAATGCGGGAAGGCCTTCAGCC
GGAAAGACACTCTTGTTTCAGCACCAGCGCTTTCATACTGGCGAGCGCCCTATGAATGCTCTGAATGCGG
TAAGTTCTTCTCTCAGAGTTCTCACCTTATCGAACATTGGCGGATCCACACCGGGGCTCGGCCCTACGAA
TGCATTGAATGTGGGAAATCTTCTCTCACAATTCCTCTTATAAAACACCGCCGGGTGCACACAGGGG
CCAGCAGCTATGTGTCTCCAAGTGCAGGAAAGGCCTTTGGGTGCAAGGATACCCTCGTGCAGCACCAGAT
TATTCACACCGGCTCGGCCATATGAGTGTAGCGAGTGGGGAAGGCCTTCAGCAGAAAGGATACATTG
GTGCAGCACCAGAAATTCACACCGGAGAGCGACCTTACGAGTGTGGTGAATGCGGAAATTCCTCTCAC
ATAGTTCGAATCTGATAGTTTCATCAGAGAATCCATACCGGCGCAAGGCCATATGAGTGCAACGAATGCGG
GAAATGTTTtagccataactccagcctgattctgcatacagcgggtccacacagcgctcgcccttatgtg
TGCAGCGAGTGTGGTAAGGCTTATATCAGCTCCAGCCATCTGGTGCAGCATAAGAAGGTGCACACCGGG
CAAGACCGTACGAATGCAGTGAATGCGGAAAGTTTTTTTCCAGGAACTCAGGACTGATCCTCCACAGCG
CGTACACACGGGCGAGAAGCCATATGTGTCTCAGAATGTGGCAAGGCCTATAGCAGAAGCTCTCATCTC
GTGAGGCATCAGAAAGCTCACACCGGCGAAAGGGCCACGAATGCAACTCATTTGGTGGGCCCTGGCCG
CTAGCTTGAAGCTGGTC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG223527 representing NM_020657

Red=Cloning site Green=Tags(s)

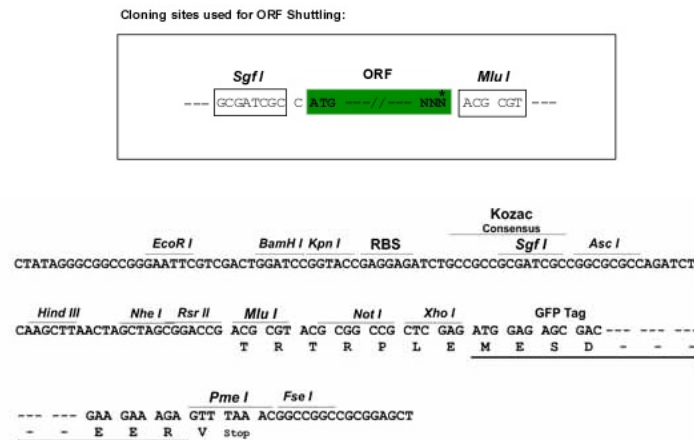
MAAAVLMDRVQSCVTFEDVFVYFSREEWELLEEAQRFLYRDVMLENFALVATLGFWCEAEHEAPSEQSVS
VEGVSQVRTAESGLFQKAHPCMCDDLKDLHLAEHQSHLTQKLCTRGLCRRRFSFSANFYQHQQHQN
GENCFRGDDGGASFVKSTVHMLGRSFTCREEGMDLPDSSGLFQHQTYYNRVSPCRTECMESFPSSSL
RQHQGDYDQMLFSCGDEGKAFDFTLLDSQMTAEVRPFRCLPCGNVFEKKSALINHRKIHSGEISHV
CKECGKAFIHLHLMKHQKFHTGKRHYTCSECGKAFSRKDTLAQHQRVHTGERPYDCSECGKAYSRS
VQHQRHTGERPYKNECGKAFSRKDTLVQHQRHTGERPYECSECGKFFSQSSHLIEHWRIHTGARPYE
CIECGKFFSHNSSLIKRRRVHTGASSYVCSKCGKAFGCKDVLVQHQIIHTGARPYECSECGKAFSRKDTL
VQHQRHTGERPYECSECGKFFSHSSNLIVHQRHTGAKPYECNECGKCFSHNSSLILHQRVHTGARPYV
CSECGKAYISSSHLVQHKKVHTGARPYECSECGKFFSRNSGLILHQRVHTGEKPYVCSECGKAYSRS
VRHQAHTGERAHECNSFGGLAASLKL

TRTRPLE - GFP Tag - V

Restriction Sites:

SgfI-MluI

Cloning Scheme:



ACCN:

NM_020657

ORF Size:

1977 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:

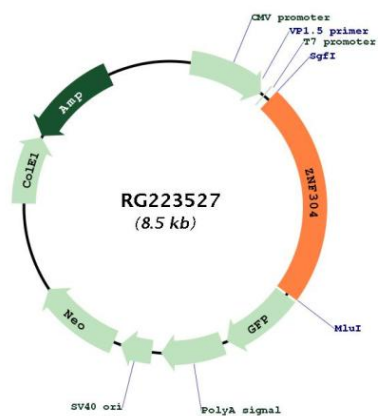
This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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_020657.1 , NP_065708.1
RefSeq Size:	4420 bp
RefSeq ORF:	1980 bp
Locus ID:	57343
UniProt ID:	Q9HCX3
Cytogenetics:	19q13.43
Gene Summary:	This gene encodes a member of the Krueppel C2H2-type zinc-finger family of proteins. The encoded protein functions as a transcriptional repressor that recruits a corepressor complex to stimulate promoter hypermethylation and transcriptional silencing of target genes. Expression of this gene is upregulated in colorectal, ovarian and breast cancer, and this gene may promote cancer cell survival, growth and invasion. [provided by RefSeq, Jul 2016]

Product images:



Circular map for RG223527