

Product datasheet for **RC207343**

ZNF546 (NM_178544) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	Myc-DDK
Symbol:	ZNF546
Synonyms:	ZNF49
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



ORF Nucleotide Sequence: >RC207343 ORF sequence, **codon optimized**.

Due to the complexity of NM_178544, 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**

ATGCAAGTGGATCCTCCACTGCATGGCCCCCAATGATTTCTCATCTTCCAGATAATTCCACTGCACA
GTCTGTCAATTATGCCCGCTTCTGTGGATTCTGTGTTTTCCATGGAGGAGACACAGGGCGAGTTGAC
GTCAAGCTGCGGTAGTAAGACCATGGCAAACGTGTATTGGCCTTCCGAGACGTTAGCATTGATCTCTCT
CAGGAAGAGTGGGAATGCTTGGATGCCGTTCAACGGGACCTGTATAAGGACGTGATGCTTGAGAATTACT
CTAACCTGGTTAGCCTTGGCTATACCATCCCTAAACCGGATGTGATTACTCTGCTGGAGCAGGAGAAGGA
ACCATGGATCGTCATGAGAGAAGGCACAAGGAAGTGGTTTACAGACCTGGAGTACAAGTACATCACTAAA
AACCTGCTTCCGAGAAGAATGTGTGAAGATTACCTGTCTCAGCTTCAGACAGGGGAGAAGTCCAAAA
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CCACCATGAGTGGGTGTGTGCCAGATGCTTATCAAAAACAAATAAGTCAACCCCTGCATCCTAAGATT
CATGCAAGAGAGAAAAAGCTACGAGTGTAAAGGAGTGTGCAAAAGCTTTCAGACAGCAGTCTTACCTCATCC
AGCATCTGCGAATTCATACCGGAGAACGGCCATACAAATGTATGGAGTGCAGGCAAGCCTTTTGCAGAGT
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AACATTATAGGATTCATACCGGCGAGAAGCCATACATCTGTAAACGAATGCGGAAAGGCATTTAGGCTCCA
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ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
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Protein Sequence:

>RC207343 representing NM_178544

Red=Cloning site Green=Tags(s)

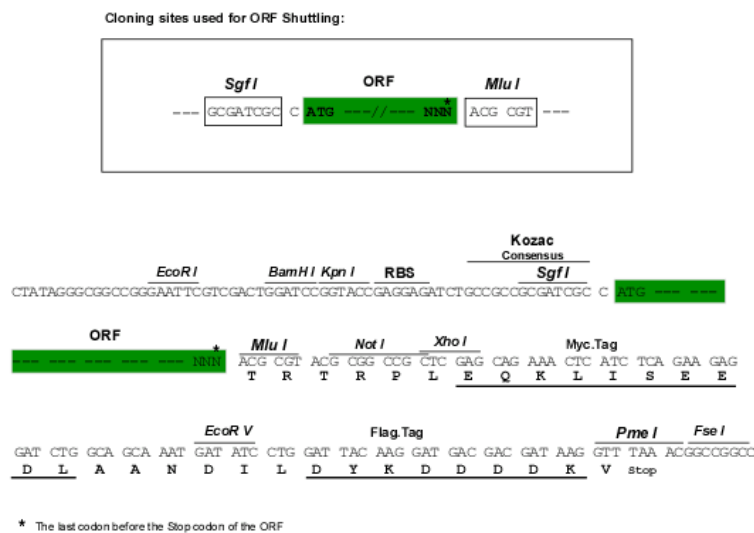
MQVDPPLHGPNDLIFQIIPHLHLSIMPRFLWILCFSMEETQGELTSSCGSKTMANVSLAFRDVSDLS
QEEWECLDAVQRDLKYDVMLENYSNLVSLGYTIPKPDVITLLEQEKEPWIMREGTRNWFDTLEYKYITK
NLLSEKNVCKIYLSQLTGEKSKNTIHEDTIFRNLQCKHEFERQERHQMGCVSQMLIQKQISHPLHPKI
HAREKSYECKECCRKAFRQQSYLIQHLRIHTGERPYKCMCEGKAFRCVGDRLRVHHTIHAGERPYECKECGK
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HTGEIPYECKECGKTFSSRYHLTQHYRIHTGEKPYICNECGKAFRLQGELTRHHRHTHTEKPYECKECGK
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HTGEKPYKCTECGKAFIRSTHLTQHRIHTGEKPYECTECGKTFSRHYHLTQHHRGHTGEKPYICNECGN
AFICSYRLTLHQRIHTGELPYECKECGKTFSSRYHLTQHFRHTGEKPYSCKECGNAFRLQAELTRHHIV
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TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

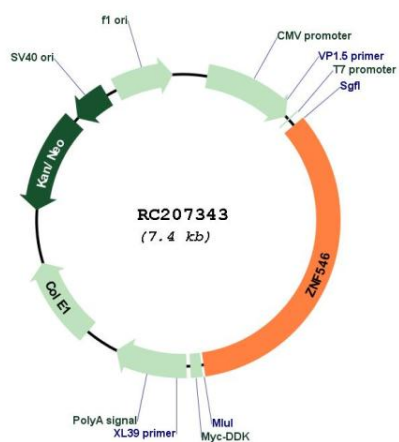
SgfI-MluI

Cloning Scheme:



ACCN:	NM_178544
ORF Size:	2508 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_178544.1 , NM_178544.2 , NM_178544.3 , NM_178544.4 , NP_848639.1 , NP_848639.2
RefSeq Size:	8000 bp
RefSeq ORF:	2511 bp
Locus ID:	339327
UniProt ID:	Q86UE3
Cytogenetics:	19q13.2
MW:	98.4 kDa
Gene Summary:	May be involved in transcriptional regulation.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RC207343