

Product datasheet for **RC224352**

ZNF644 (NM_201269) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	Myc-DDK
Symbol:	ZNF644
Synonyms:	BM-005; MYP21; NatF; ZEP-2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence: >RC224352 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGC**

ATGAGATCGTTCCTGCAGCAAGATGTTAATAAGACAAAATCTAGACTAAATGTGTTAAATGGGCTTGCCA
ACAATATGGATGATTTGAAGATAAACACCGATATTACTGGTGCTAAAGAAGAACTCCTAGATGACAACAA
TTTTATCTCAGACAAAGAGAGCGGAGTTTCAATAGCCAAAAGATTGTCAAACATCATTTTCAGAAAAATAAT
ACGTTGACTCTGCCTGAAGAACTGTCAAAGGACAAATCTGAAAACGCCTTAAGTGGAGGCCAGCTAGTC
TATTTATACATGCTGGTGCTCCTACTGTTTCTAGTGAAAACCTTATCTTGCCTAAAGGAGCTGCTGTTAA
TGGACCAAGTTTCACACTCCTCCTTAAGAACTTCCAATATGAATAAAGGCAGTGTTTCATTAACCACT
GGACAGCCTGTGGATCAGCCAACAACAGAATCTTGTTCAACTTTGAAGGTAGCAGCTGATCTTCAGCTGT
CTACACCACAGAAAGCAAGTCAACACCAAGTTTATTTTGTATCAGATGTAGCACATGCTAAGAATCC
CACCCATTCCAATAAAAACTACCTACCTCTGCTTCAGTTGGTTGTGACATTCAGAATTCAGTAGGGAGT
AATATAAAGTCAGATGGCACTTTAATAAATCAAGTAGAGGTGGGTGAGGATGGTGAAGATTTATTGGTGA
AAGATGATTGTGTCAATACAGTAACGGGAATTTCTCAGGTACAGATGGATTTAGGTCAGAAAAATGATAC
AAACTGGGATCCCCAAAAGAGTTTCATTCAATTTCTTATGACTAATGAGGAAACAGTAGATAAAGCTCCA
CCTCATTCTAAAAATAGGTCTAGAAAAAAGAAAGCGAAAAATGGATGTAAGCAAGATAACTCGTTATA
CCGAGGATTGCTTTAGTGATTCTAATTGTGTACCAATAAATCAAAAAATGCAAGAAGTAGACTTTCTAGA
ACAAAAATGAAGAGCTACAAGCAGTAGACTCACAGAAATATGCATTATCAAAAGTGAAGCCTGAATCAACT
GATGAAGACTTAGAATCTGTGGATGCCTTCCAACATCTAATTTATAACCCAGATAAGTGTGGAGAAGAGA
GTTCACCTGTTCTACTAGCACTTTTCTTTCAAAATACCTTAAAAAAGAAATGTGAAGAGAGTGATTCTGA
GTCACCTGCTACTTTCAGTACCGAAGAGCCATCATTCTACCCCTGTACAAAGTCAATGTGAATTTAGG
GAGAAGAAGCACCTCCACAGGCATATGATGTATCATTTAGATGGGAATAGTCACTTTTCGCCATCTTAATG
TCCCAAGGCCATATGCTTGTAGAGAATGTGGACGGACATTTTCGAGATCGCAATTCACCTCTAAAAACATAT
GATTATTCACCAGGAGAGAAGACAGAAGTTGATGGAGGAAATTCGTGAATTGAAAGAACTTCAGGATGAA
GGAAGAAGTGCACGATTACAGTGTCTCAGTGTGTTTGGTACCAATTGCCCTAAAACATTTGTGCAAC



ATGCTAAAACCCATGAAAAAGATAAAAGGTAAGTACTGCTGTGAAGAGTGAACCTCATGGCAGTGACAGA
AAATGAATTGGAATGCCATCGAGGCATTGCACATGGGGCAGTGGTAAAAAGCCCTATGGTCACTTCTGAT
ATTGCCCAGAGAAAAACACAAAAAGACTTTTCATGAAAGACTCTGTAGTAGGATCATCCAAAAATCAG
CTACCTACATATGTAAGATGTGTCCTTTTACTACTTCAGCCAAAAGTGTTTTAAAAAGCACACGGAGTA
CTTGCAATTCATCATCATGTGTTGATTCTTTGGTAGTCTCTGGACTTGATAAAAGAAAAATGACATC
CTTGAAGAACCTGTAGATAGTGATAGCACTAAAACATTAACATAAACACAGTCAACCACATTTCCAAAGA
ACTCTGCTTTAAAAACAAGATGTGAAGCGAACATTTGGATCAACCTCACAATCAAGTAGTTTTTAAAAAT
TCATAAGCGGCCACACAGAATACAGAAAGCTCGGAAAAGCATTGCCCAATCAGGTGTAACATGTGCAAT
CAAAACAGCTCTCCTCATAAGAATGTTACAATTAAGCAGCGTTGACCAAAACCTAAGTATTTCCATC
AAGCAGCAAAAGAAAAGTCTAATGCCAAGGCAATAGCCACTATTTGTATAGACACAAATATGAAAACTA
TAGGATGATCAAAAAATCAGGTGAATCATATCCTGTGCATTTCAAAAAAGAAGAAGCTAGTTCATTAAT
TCTTTACACCTGTTTTCATCATCAAGTAATTTCTACAACAATTTTATTTTTCAGACCCCTATAAGCCTGACG
CCAAAAGGCTGAAAGCTTCAAAGATCACAGACGTGTAGCTGTAAAGAGAGTAATTAAGGAATCTAAGAA
GGAAAGTTCTGTTGGAGGGGAAGACTTGGATAGCTATCCAGATTTTTTGCATAAAATGACTGTTGTCGTT
TTGCAAAACTTAATTCGCTGAAAAGAAAGATAGTTATGAAACAGAAGATGAAAGTTCCTGGGATAATG
TTGAGTTAGGAGACTACACTACACAGGCCATAGAAGATGAAACCTATAGTGATTAATCAAGAGCATGT
AAATTTATTCCTTTATTTAAGAGCAAGTGGAAGGTGAGGAGCCTGGAGAAAATGCTACTCTTAGTTAT
GACCAAAACGATGGCTTTTATTTTGAATACTATGAAGATACTGGAAGTAACAACCTTTTTGCATGAGATAC
ATGATCCTCAGCATTTAGAACTGCAGATGCTTCATTGTCAAAGCATAGTTCGTGTTTTTTCATTGGACTGA
TTTGTCTCTTGAGAAGAAATCGTGCTTACTGCCAGCAACATTTGAAACAGGTGTTGGGTTATCAAAT
CATGTGAGGGGTCATCTCACAGAGCAGGATTAAGCTATGAAGCCCGTCATGTTGTATCACCAGAACAAA
TAGCCACAAGTGACAAATGCAGCATTTCAAAGAACTGGCACAGGAACACCTGTTAAACGAGTTAGAAA
AGCTATAGAGAAGTCTGAAACCACTTCTGAACACACTTGTCAGCTCTGTGGTGGTTGGTTTGATACTAAA
ATTGGATTATCAAATCATGTTAGAGGCCACTTGAAAAGACTTGGAAGACGAAATGGGATGCTCACAAAT
CTCCAATCTGTGTTCTGAATGAGATGATGCAAAATGAAGAAAAATATGAAAAATCTTAAAGGCATTGAA
CAGTCGTCGATTATTTCCAGACCACTTTGTAGCTCAAAACCTTGATCAAGTGATGACTTTATATCTCAA
AATGTTATACCTCTTGAAGCATACCGTAATGGCCTAAGACTGAAGCTCTGTGAGTGTGCATCAGAAG
AAGAAGGGCTGAATTTCTTAAATGAATATGATGAAACAAAACAGAACTGCCAGTGGGAAAAAGAAATCA
GTCTCTTACACTCATAGAACTTCTTAAAAATAAAGGATGGGAGAAGAAAGGAATTCTGCTATTTCTCCT
CAAAAGATCCATAATCAGACAGCAAGAAAGAGATTCGTTTCAAGAAATGCGTTCTTCCATTAAATGAGGATA
GTCCGTTGATGATCAGCCACAAAAATGGACTTGACTATGCACTCAGCCTTAGATTGTAAGCAAAAGAA
ATCAAGGTCAAGATCTGGAAGCAAGAAAGAAATGCTAACATTACCTCATGGTGTGACGAGGTTTACATT
CTCCGATGCAGGTTTTGTGGCCTAGTCTTCGAGGACCCTGTCTGTTCAAGGAAGACTGGATTAAGCACT
TACAACGACATATTGTAACGCTAATCTCCACGACTGGAGCTGGCATGGTGAAGTCACGTCACTACT
TAAAAAGCCTGCCTCCATTACAGAACTTCATTTCTCTACTAATGGCCGAAGCAGCTTCA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC224352 protein sequence
Red=Cloning site Green=Tags(s)

MRSFLQQDVNKTKSRLNVLNGLANNMDDLKINTDITGAKEELLDDNNFISDKESGVHKPKDCQTSFQKNN
TLTLPPEELSKDKSENALSGGQSSLFIHAGAPTVSSENFILPKGAAVNGPVSHSSLTKTSNMNKGVSLSLT
GQPVDQPTTESCSTLKVADLQLSTPQKASQHQVLFLSDVAHAKNPHTSNKKLPTSASVGCIDQNSVGS
NIKSDGTLINQVEVGEDGEDLLVKDDCVNTVTGISSGTDGFRSENDTNWDPQKEFIQFLMTNEETVDKAP
PHSKIGLEKKRKRKMDVSKITRYTEDCFSDSNCPNKSQMVEVDFLEQNEELQAVDSQKYALSKVKPEST
DEDLESVDAFQHLIYNPDKCGEESPVHTSTFLSNTLKKKCEESDSESPATFSTEEPSFYPCCKCNVNF
EKKHLHRHMYHLDGNSHFRHLNVRPYACRECGRTFRDRNSLLKHMIHQERRQKLMEEIRELKELQDE
GRSARLQCPQCQVGTNCPKTFVQHAKTHEKDRYYCCEECNFMAVTENELECHRGIAHGAVVKCPMVTSD
IAQRKTQKKTFMKDSVVGSSKKSATYICKMCPFTTSAKSVLKKHTEYLHSSSCVDSFGSPLGLDKRKNDI
LEEPVDS DSTKTLTKQQSTTFPKNSALKQDVKRTFGSTSQSSSFSKIHKRPHRIQKARKSIAQSGVNMCM
QNSSPHKNVTIKSSVDQKPKYFHQAEEKSNAKANSHYL YRHKYENYRMIKSGESYPVHFKEEASSLN
SLHLFSSSSNSHNNFISDPHKPDARPEFSDHRRVAVKRVIKESKKESSVGGEDLDSYPDFLHKMTVVV
LQKLNSAEKKDSYETEDESSWDNVELGDYTTQAIEDETSYSDINQEHVNL FPLFKSKVEGQEPGENATLSY
DQNDGFYFEYEDTGSNNFLHEIHDPQHLETADASLSKHSSVFHWTDLSLEKKSCPYCPATFETGVGLSN
HYRGHLHRAGLSYEARHVVSPQIATSDKMQHFKRTGTGTPVKVRKAIEKSETTSEHTCQLCGGWFDTK
IGLSNHVRGHLKRLGKTKWDAHKSPICVLNEMMQNEEKYEILKALNSRRIIPRPFVAQKLASSDDFISQ
NVIPL EAYRNLKTEALSVSASEEEGLNFLNEYDETKPELPSGKKNQSLTLIELLKNKRMGEERNSAISP
QKIHNQTARKRFVQKCVLPLNEDSPLMYQPQKMDLTMHSALDCKQKKSRSRSGSKKKMLTLPHGADEVYI
LRCRCGLVFRGPLSVQEDWIKHLQRHIVNANLPRTGAGMVEVTSLLKKPASITETSFLLMAEAS

TRTRPLEQQLISEEDLAANDILDYKDDDDKV

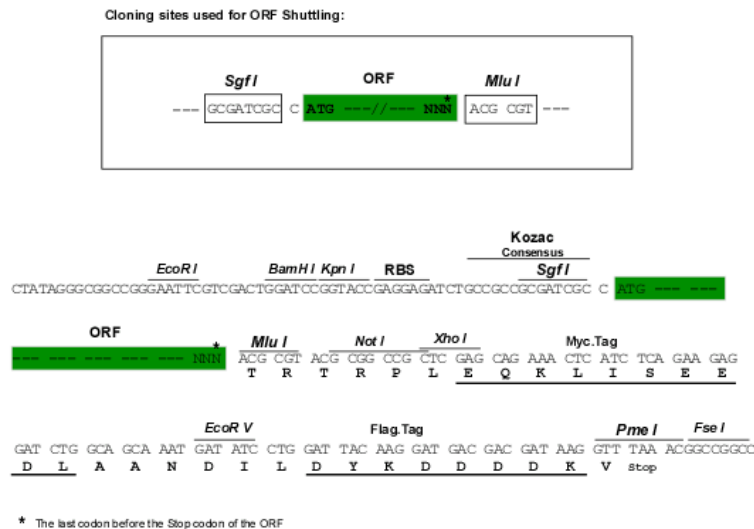
Chromatograms:

https://cdn.origene.com/chromatograms/mk6608_a04.zip

Restriction Sites:

Sgfl-MluI

Cloning Scheme:



ACCN:

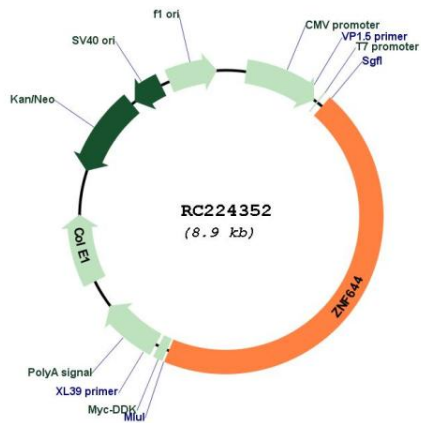
NM_201269

ORF Size:

3981 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_201269.3
RefSeq Size:	5776 bp
RefSeq ORF:	3984 bp
Locus ID:	84146
UniProt ID:	Q9H582
Cytogenetics:	1p22.2
Protein Families:	Transcription Factors
MW:	149.6 kDa
Gene Summary:	The protein encoded by this gene is a zinc finger transcription factor that may play a role in eye development. Defects in this gene have been associated with high myopia. Three transcript variants encoding two different isoforms have been found for this gene. [provided by RefSeq, Aug 2011]

Product images:



Circular map for RC224352