

Product datasheet for **RG216644**

ZNF229 (NM_014518) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	TurboGFP
Symbol:	ZNF229
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



ORF Nucleotide Sequence: >RG216644 ORF sequence, **codon optimized**.
Due to the complexity of NM_014518, 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)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGCATCGC**

ATGGAGACTCTTACGAGCAGACACGAGAAGCGAGCACTTCACTCCCAGGCGTCAGCGATCTCCAGGATA
GAGAGGAGAAAAATTATGAGTCAGGAGCCTCTGTCTTTAAGGATGTCGCCGTGGTGTTCACTGAGGAAGA
ACTTGAAGTCTCGATTCTACCCAGCGCCAGCTGTACCAGGACGTGATGCAGGAAAACTTTTGGAAACCTT
TTGTCCGTTGGGAAAGGAACCCCTGGGAGATAAGAACGGGAAAGACACTGAGTACATACAGGACGAGG
AGCTGAGATTTTTTCCACAAAGAGCTCTCATCTGTAAATCTGGGAGGAAGTGGCAGGCGAACTGCC
TGGCTCCCAAGACTGCCGCGTGAATCTGCAAGGAAAAGATTTCCAGTTTGTGAAAGACGCCGCGCCAC
CAGGGGTGGGAAGGCGCCAGCACTCCCTGTTTCCCTATCGAAAAATCCCTGGATTCCCTCCAGGGTGATG
GTCTGATCGGTCTTGAGAATCAGCAATTCCTGCCTGGAGGGCCATTCCGCCCATTCCTATTCAGGGTTC
TTGGGCCAAGGCTTTCGTGAATCAGCTCGGCGACGTGCAAGAAAGATGTAAAAATCTGGATACCGAAGAT
ACCGTGTACAAGTGAAGTGGGATGATGACTCCTTTTGTGGATCAGCTGCCACGTGGATCACCGGTTCC
CAGAAATCGACAAGCCTTGGCGCTGCAACAAGTGCCGCAAGGATTGCATTAAGAATTCAGTCTCCACAG
AATTAATCCAGGAGAAAACGGATTGAAGAGTAACGAGTACAGGAATGGCTTCAGGGATGATGCCGACTTG
CCACCCCATCCAGAGTGCCGTTGAAAGAGAAGCTGTGTGAGTATGACGAGTTCTCTGAAGGGCTCGCGC
ATTCAGCCCATCTTAACAGGCATCAGCGGGTACCAACGGGTGAAAAGAGTGTGAAGAGCTTGAACGCGG
AAGAGGCGTACGGCAGAATACACATATCCGCAACCATCCAAGGGCTCCAGTTGGCGACATGCCATACAGA
TGTGACGTCTGCGGAAGGGGTTTCGGTACAAATCTGTACTGTTGATCCATCAGGGAGTGACACAGGAA
GACGGCCATATAAGTGCGAGGAATGCGGAAAAGCTTTCGGTAGGTCTTCTAATCTGCTGTCACACAGAG
GGTTACACTGGTGAGAAAGCCTTACAAGTGTAGCGAATGCGGTAAAGGCTTCTCTACAGTTCCGTCCTC
CAAGTTCATCAGAGACTCCATACCGGGGAGAAGCCATACACATGCTCAGAGTGCGGCAAGGCTTCTGTG
CCAAGAGTGCGCTGCATAAGCACCAGCACATCCATCCTGGCGAAAAGCCCTACTCATGTGGGGAGTGTGG
GAAGGGGTTTAGTTGCTCTTCTACCTGAGTAGCCACCAGAAAACCCACACTGGAGAGCGGCCTTATCAA
TGTGACAAGTGCGGAAAAGGCTTCTCTATAATTCCTACTTGCAAGCTCACCAGCGGGTTTCATATGGGGC
AACATCTTTACAAGTGAATGTCTGTGGAAAATCCTTTAGTTACTCTAGCGGGCTGCTCATGCACACGCG
CCTGCATACAGGAGAGAAAACCATACAAATGCGAATGTGGGAAGAGCTTCGGCCGGTCTAGCGACCTTCAT
ATACACCAGCGGGTCCACACTGGGGAAAAACCGTATAAGTGTAGCGAATGTGGAAAAGGCTTCGGCGGA
ACAGCGACCTCCATAGCCACCAGCGGGTACATACAGGCGAGCGCCCTACGTTTGCGACGTCTGCGGGA
AGGATTTATCTATTCCAGCGACCTTCTGATCCACCAGCGCGTGACACAGGCGAAAAGCCTTACAAGTGC
GCTGAATGCGGAAAGGGTTTCAGTTACAGTAGCGGCCTGCTGATTACACAGAGAGTGCATACCGGCGAGA
AACCTTACAGGTGTCAGGAATGTGGTAAAGGATTCCGGTGACGTCCAGTCTCCATAAACACCAGCGAGT
TCACACAGGTAAAGAAGCCTTACTTGTGACCAGTGTGGGAAAGGGTTTAGCTATGGATCAAACCTCCGC
ACACACCAGAGACTCCACACTGGCGAGAAGCCCTATACCTGTTGCGAGTGTGGCAAAGGGTTCGGTATG
GGTCCGGGCTGCTCTCTATAAGCGAGTACACACAGGCGAGAAACCTTATCGATGCCACGTGTGTGGTAA
GGGCTACTCACAGTCTAGCCATCTTCAGGGGACACGAGTCCACACAGGGGAGAAGCCCTACAAGTGC
GAGGAGTGCGGTAAGGGATTCCGGAGGAACAGTTGCCTGCAGTGCATCAACGGGTCCATACCGGGGAGA
AACCTTACACTGTGGCGTGTGTGGGAAGGATTCTCTTACTTCTGGCCTCAGGAATCATCAGCGCGT
CCACTTGGGGGAAAACCATATAAA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG216644 representing NM_014518

Red=Cloning site Green=Tags(s)

METLTSRHEKRALHSQASAI SQDREEKIMSQEPLSFKDVAVVFTEEELELLDSTQRQLYQDVMQENFRNL
LSVGERNPLGDKNGKDTEYIQDEELRFFSHKELSSCKIWEEVAGELPGSQDCRVNLQGGKDFQFSEDAAPH
QGWEGASTPCFPIENSLDSLQGDGLIGLENQQFPAWRAIRPIPIQGSWAKAFVNQLGDVQERCKNLDTED
TVYKCNWDDDSFCWISCHVDHRFPEIDKPCGCNKCRKDCIKNSVLHRINPGENGLKSNEYRNGFRDDADL
PPHPRVPLKEKLCQYDEFSEGLRHSAPLNRHQRVPTGEKSVKSLERGRGVRQNTHIRNHPRAPVGDMPYR
CDVCGKGFYKSVLLIHQGVHTGRRPYKCEECGKAFGRSSNLLVHQRVHTGEKPYKCSECGKGFSSSVL
QVHQLHTGEKPYTCSECGKGFCAKSALHKKHQAHPGEKPYSCGECGKGFSSSHLSSHQKTHHTGERPYQ
CDKCGKGFSHNSYLQAHQRVHMGQHLKCNVCGKSFSSSGLLMHQLHTGEKPYKCECGKSFGRSSDLH
IHQRVHTGEKPYKCECGKGFRRNSDLHSHQRVHTGERPYVCDVCGKGFYSSDLLIHQRVHTGEKPYK
AECGKGFSSSGLLIHQRVHTGEKPYRCQECGKGFRTSSLHKKHQRVHTGKKPYTCDQCGKGFSSGNLR
THQLHTGEKPYTCCECGKGFYSGLLSHKRVHTGEKPYRCHVCGKGYSSHLQGHQRVHTGEKPYK
EECGKGFGRNSCLHVHQRVHTGEKPYTCGVCGKGFYSGLRNHQRVHLGENPYK

TRTRPLE - GFP Tag - V

Restriction Sites:

Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



Kozac
Consensus

EcoR I BamH I Kpn I RBS Sgf I Asc I

CTATAGGGCGGCGGGGAATTCTGTCTGACTGGATCCGGTACCGAGAGATCTGCCGCCGCATCGCCGGCGCCGCAGATCT

Hind III Nhe I Rsr II Mlu I Not I Xho I GFP Tag

CAAGCTTAAC TAGCTAGCGGACCG ACG CGT ACG CGG CCG CTC GAG ATG GAG AGC GAC --- --

 T R T R P L E M E S D - - -

Pme I Fse I

--- -- GAA GAA AGA GTT TAA ACGCGCGGCCGCGAGCT

- - - E E R V Stop

ACCN: NM_014518

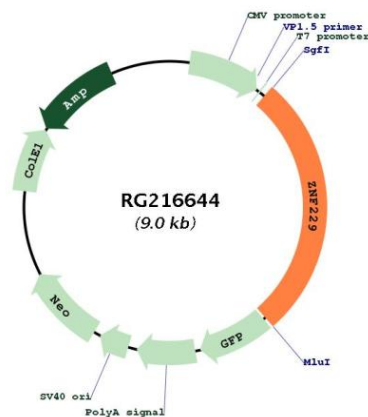
ORF Size: 2475 bp

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_014518.2 , NP_055333.2
RefSeq Size:	4956 bp
RefSeq ORF:	2478 bp
Locus ID:	7772
UniProt ID:	Q9UJW7
Cytogenetics:	19q13.31
Gene Summary:	May be involved in transcriptional regulation.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RG216644