

Product datasheet for **RG223436**

ZNF600 (NM_198457) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ZNF600 (NM_198457) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	ZNF600
Synonyms:	KR-ZNF1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide
Sequence:**

>RG223436 ORF sequence, **codon optimized**.
 Due to the complexity of NM_198457, 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)

TTTGTGAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGC**

ATGATGAAGGAAGTGCTGTCCACCGGGCAAGGGAACACGGAGTTATCCACACAGGTACCCTGCAAAGAT
 ATCAAAGCTACCACATTGGAGATTTTGTTCAGGAAATAGAGAAGGAGATCCATGATATCGAGTTCCA
 GTGCCAGGAGGACGAACGAATGGTCACGAGGCTCCTATGACAAAAATCAAGAACTCACCGGCTCAACG
 GATCAGCACGACCATAGGCATGCGGGCAATAAGCCTATTAAGACCAGCTTGGCTCCTCATTTTATTCAC
 ATCTGCCCCGAGCTGCATATTATACAAATTAAGGGAAGATCGGAAATCAGTTCGAGAAATCTACAAGTGA
 CGCCCCCTAGTGAAGCACCAGTCAACGAATCTCTCCCGCCCTCAGATTCATATCTTAATAACTATGGC
 AACAACTACCAAACCTCTCTGCTGCCCCAAAAACAAGAAGTATACATGCGAGAGAAGAGTTTCCAAT
 GTAACGAGAGTGGCAAGGCCCTTAAGTCTCAAGCCTCTTGCGCAAAACACCAGATTCCTCACCTGGGTGA
 CAAACAGTACAAGTGGCAGCTGTGCGGTAAAGTTGTTCAACCATAAACAGTACCTGACGTGCCATAGGAGG
 TGTCATACTGGGAAAAACCTTACAAGTGCAACGAGTGTGGGAAGTCTTCAGTCAAGTGAGTTCTCTCA
 CATGCCATAGACGCTTACACCGCTGTCAAAGGCCACAAATGCAATGAATGTGGCAAGATTTTGGCCA
 AAATTCGCACTGGTTATTACAAAGGCCATCCATACTGGCGAAAAGCCATATAAGTGTAAAGAGTGCGAT
 AAAGCCTTTAACCACAGTCCAACCTCGCGCGGCACCGCGGATCCACACTGGGGAAAAACCATATAAGT
 GCGAGGAATGCGACAAGTTTTCAGCCGAAATCTACACTGGAAGTCATAAGCGCATTACACCGGCGA
 GAAGCCCTACAAGTGCAAGGTCTGTGACACAGCCTTCACTTGAATAGTCAGTGGCTCGACACAAACGA
 ATACATACTGGCGAGAAGACCTATAAATGTAATGAATGTGAAAGACCTTAGTCACAAGAGCTCACTTG
 TCTGCCACCACAGGCTGCACGGCGGCGAGAAGTCTTACAAGTGAAGGTGTGCGACAAGGCATTTGCCTG
 GAACTCTACCTCGTCCGACATACCAGAATACATTCTGGTGAAAGCCATATAAGTGCAATGAGTGTGGG
 AAAACCTTTGGTCAGAATAGCGACTTGCTGATCCACAAGAGCATCCACACTGGCGAGCAGCCATACAAGT
 ACGAGGAATGTGAAAAAGTGTTCAAGTTGTGGGTCTACATTGGAACTCATAAAATCATTACACCGGTGA
 GAAACCGTACAAATGCAAGTCTGCGACAAGGCTTTTGCCTGTATAGCTATCTGGCCAAACATACTAGG
 ATACACTCAGGCGAAAAGCCCTACAAGTGAACGAGTGCAGCAAGACGTTTCGCCTCCGAAGTTACCTTG
 CTTCTCACAGGCGAGTGCAATCTGGCGAGAAACCGTACAAGTGAATGAATGCAGTAAAACATTTTCTCA
 ACGGTCTTATTTGCATTGTATCGCGACTTCACAGCGGCGAAAAACCTATAAGTGCAATGAGTGGGA
 AAGACCTTTAGCCACAAGCCTTCACTGGTCCACCACAGGAGACTGCACACAGGCGAAAAAGCTACAAGT
 GTACAGTTTGTGACAAAGCCTTCGTGCGGAACTCCTATCTCGCTCGACACAGGATCCACACCGCCGA
 GAAGCCTTACAAATGCAACGAGTGGGAAAAAGCCTTCAACCAGCAGAGTCAGCTCAGCTGCATCATAGA
 GTCCACGCGGCGAGAAGCTCTACAAGTGTGAAACCTGCGACAAAGTGTCTCCGAAAAATCCCACCTTA
 AGAGGCACCGAAGGATTACCCCGCAAGAAACCTATAAGTGCAAGGTCTGTGATAAAACATTTCGGATC
 TGATAGCCACCTTAAGCAGCATACAGGCTGCACACAGGCGAGAAGCCATACAAATGTAATGAGTGCGGC
 AAAGCATTTAGTAAGCAGAGTACACTGATTACCACCAGGCAGTTCACGGGTGGGAAGCTGGAC

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>RG223436 representing NM_198457
 Red=Cloning site Green=Tags(s)

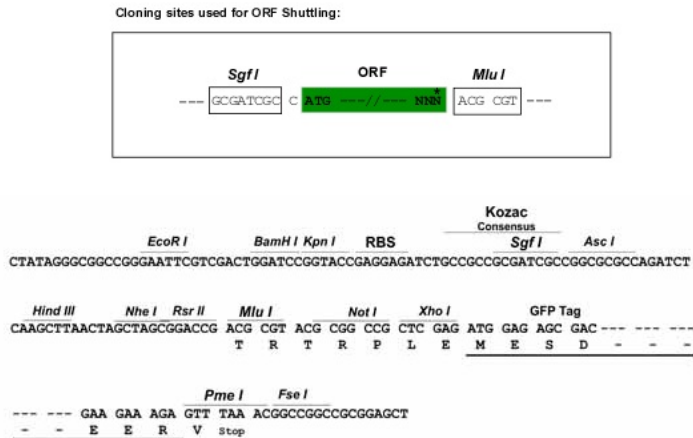
MMKEVLSTGQGNTTEVIHTGTLQRYQSYHIGDFCFQEIEKEIHDIEFQCQEDERNGHEAPMTKIKKLTGST
 DQHDHRHAGNPKIKDQLGSSFYSHLPELHIIQIKGKIGNQFEKSTSDAPSVSTSQRISPRPQIHISNNYG
 NNSPNSLLPQKQEVYMRKESFQCNESEGKAFNCSSLLRKHQIPHLGDKQYKCDVCGKLFNHKQYLTCHRR
 CHTGEKPYKCNECGKSFQVSSLTCHRRLLHTAVKSHKCNECGKIFGQNSALVIHKAHTGEKPYKCNECD
 KAFNQQSNLARHRRHTGEKPYKCECDKVF SRKSTLSEHKRIHTGEKPYCKVCDTAFTWNSQLARHKR
 IHTGEKTYKCNECGKTF SHKSSLVCHHRLHGGEKSYCKVCDKAFANSHLVRHTRIHS GGKPYKCNECG
 KTFGQNSDLLIHKSIHTGEQPYKYEECEKVFSCGSTLETHKIIHTGEKPYCKVCDKAFACHSYLAKHTR
 IHSGEKPYKCNECSKTFRLRSYLASHRRVHSGEKPYKCNECSKTF SQRSYLHCHRRLLHSGEKPYKCNECG
 KTF SHKPSLVHHRLLHTGEKSYCTVCDKAFVRNSYLARHTRIHTAEKPYKCNECGKAFNQSQLSLHHR
 VHAGEKLYKCETCDKVF SRKSHLKRHRRHPGKPYCKVCDKTFGSDSHLKQHTGLHTGEKPYKCNECG
 KAFSKQSTLIHHQAVHGVGKLD

TRTRPLE – GFP Tag – V

Restriction Sites:

Sgfl-MluI

Cloning Scheme:



ACCN:	NM_198457
ORF Size:	2166 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.

RefSeq: NM_198457.1, NP_940859.1

RefSeq Size: 3239 bp

RefSeq ORF: 2169 bp

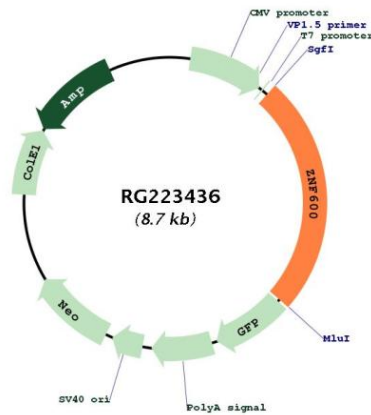
Locus ID: 162966

UniProt ID: Q6ZNG1

Cytogenetics: 19q13.41

Gene Summary: May be involved in transcriptional regulation.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RG223436