

Product datasheet for **RG230224**

ZNF454 (NM_001178090) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ZNF454 (NM_001178090) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	ZNF454
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>RG230224 representing NM_001178090
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGCTGTCAGCCACCTGCCAACCATGGTCCAGGAATCGGTGACCTTCAAGGATGTGGCTATACTGTTCACCCAGGAAGAGTGGGGCAGCTGAGCCCGCCAGAGGGCCCTGTACAGGGACGTGATGCTGGAGAACTACAGCAACCTGGTCTCACTGGGACTCTTAGGACCCAAACCAGATACGTTTTCCAGCTAGAAAAAAGGAAAGTGTGGATGCCAGAGGACACCCCTGGAGGCTTCTGTCTTGACTGGATGACTATGCCTGCCAGTAAGAAATCTACTGTCAAGGCAGAGATTCTGAAGAAGAATTGGATCAATGGACAATAAAGGAAAGATTCACTAGCAGTAGTCACTGGAAGTGTGCTAGCCTGCTGGAGTGGCAATGTGGAGGCCAGGAGATCAGTTTGCAGCGAGTGTACTCACTACCCCAACACCCCATCACAGGAATGTGATGAATCCGGGAGCACTATGAGCTCATCTCTCACAGTGATCAAAGTCAGGATTTCAACCTAGCAAAAATGCCTTTGAGTGTAGTGTGGAAAAGTCTTCTCTAAGAGTTCAACTCTTAATAAACATCAGAAAATTCATAATGAAAAAATGCAAAATCAGAAAATTCATATTAAGGAGAAAAAGATATGAATGTAGAGAATGTGGGAAAGCCTTTACCAGAGTACGCACCTTATCCATCACAAAGAATTACACTGGCGAGAAACCTATGAATGTAGGAATGTGGCAAGGCCTTCTCAGTGAGCTCTCACTTACGTACCATCAGAAAATTCATACTGGAGAGAAGCCTTTTGAATGCAACTTATGTGAAAAAGCTTTTATCCGAAATATACACCTTGCCCATCATAGAAATACATACTGGAGAGAAAACCTTTTAAATGTAACA

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>RG230224 representing NM_001178090
 Red=Cloning site Green=Tags(s)

MAVSHLPTMVQESVTFKDVAILFTQEEWQLSPAQRALYRDVMLENYSNLVSLGLLGPKPDTFSQLEKRE
 VWMPEDTPGGFCLDWMTPASKKSTVKAEIPEEELDQWTIKERFSSSSHWKCSLLEWQCGGQEI SLQRV
 VLTHPNTPSQECDESGSTMSSSLHSDQSQGFQPSKNAFECSECGKVFSSSSTLNKHQKIHNKNNANQKIH
 IKEKRYECRECGKAFHQSTHLIHHQRIHTGEKPYECKEKGKAFSVSSSLTYHQKIHTGEKPFECNLGKA
 FIRNIHLAHHRIHTGEKPFKCNICEKAFVCRAHLTKHQNIHSGEKPYKNECGKAFNQSTFLQHQRH
 TGEKPFECNECGKAFRVNSSLTEHQRIHTGEKPYKNECGKAFRDNSFARHRKIHTGEKPYRCGLCEKA
 FRDQSALAQHQRHHTGEKPYTCNICEKAFSDHSALTQHKRIHTREKPYKCKICEKAFIRSTHLTQHQRH
 TGEKPYKCNKCGKAFNQANLIQHQRHHIGE

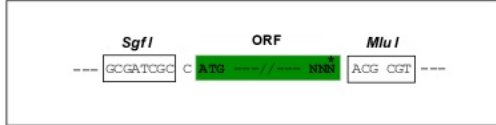
TRTRPLE – GFP Tag – V

Restriction Sites:

Sgfl-MluI

Cloning Scheme:

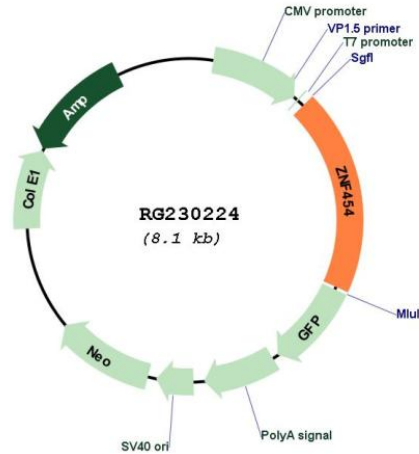
Cloning sites used for ORF Shutting:



EcoRI BamHI KpnI RBS Kozac Consensus SgfI AscI
 CTATAGGGCGGCCGGGAATTCGTGACTGGATCCGGTACCGAGSAGATCTGCCGCCGATCGCCGGCGCCAGATCT

 HindIII NheI RsrII MluI NotI XhoI GFP Tag
 CAAGCTTAACTAGCTAGCGGACCG ACG CGT ACG CGG CCG CTC GAG ATG GAG AGC GAC --- ---
 T R T R P L E M E S D - - -

 PmeI FseI
 --- GAA GAA AGA GTT TAA ACGGCCGGCCGGGAGCT
 - - E E R V Stop

Plasmid Map:


ACCN: NM_001178090

ORF Size: 1566 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_001178090.3](#)

RefSeq Size: 2111 bp

RefSeq ORF: 1569 bp

Locus ID: 285676

UniProt ID: [Q8N9F8](#)

Cytogenetics: 5q35.3

Protein Families: Transcription Factors

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