

Product datasheet for **RG218948**

EYA3 (NM_001990) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	EYA3 (NM_001990) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	EYA3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG218948 representing NM_001990
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGAAGAAGAGCAAGATTTACCAGAGCAACCAGTGAAAAAGCCAAGATGCAGGAATCAGGAGAGCAAA
 CTATAAGTCAAGTAAGCAATCCAGATGTAGTGATCAGAAGCCTGAAACATCAAGCCTTGCTTCAAACCT
 TCCCATGTGAGAGGAAATTTAGACATGCACCGATTACATCCCTCGCTCATCCAATGATTATACCTCACAA
 ATGTATTCTGCAAAACCTTATGCACATATTCTCTCAGTTCCTGTTTCGAAAAGTCTTACCTGGACAGA
 CTCAATACCAGACACTACAGCAGACTCAACCCTATGCTGTCTACCCTCAGGCAACCCAAACGTATGGACT
 ACCTCCTTTTGGTGCATTGTGGCCAGGTATGAAACCTGAAAGTGGTTAATTTCAGACTCCATCTCCAAGT
 CAACACAGTGTCTTACCTGCCTACAGGGTTAACACAAGCCAGCCAAGCCAGCACATTATTCTTATC
 CCATTCAAGCTTCAAGCACAAATGCCAGCCTGATATCTACTTCTCTACAATTGCCAATATTCCAGCAGC
 AGCAGTAGCCAGCATCTCAAACCAGGATTATCCCACCTATACTATTCTTGGTCAGAAATCAGTACCAGGCC
 TGCTACCCAGCTCCAGCTTTGGAGTCACAGGTGAGACTAACAGTGATGCAGAGAGCACCACATTAGCAG
 CAACCACATACCAGTCGGAGAAGCCTAGTGTGATGGCGCCTGCACCTGCAGCACAGAGACTTTCTCTGG
 AGACCTTCTACAAGTCCATCTTTGTCCCAGACTACACCAAGTAAAGATACTGATGATCAGTCCAGGAAA
 AACATGACTAGCAAGAACCAGGGGCAAGAGGAAAGCTGATGCCACTTCTTCCCAAGACAGTGAATTAGAAC
 GGGTATTTCTGTGGGACTTGGATGAAACCATCATCTTCCACTCACTTCTTACTGGATCCTATGCCCA
 GAAATATGGAAGGACCAACAGTAGTGATTGGCTCAGGTTTAAACATGGAAGAAATGATTTTTGAAGTG
 GCTGATACTCATCTATTTTTCAATGACTTAGAGGAGTGTGACCAGGTACATGTGGAAGATGTGGCTTCTG
 ATGACAAATGGCCAAGACTTGAGCAACTACAGTTTCTCAACAGATGGTTTTCAGTGGCTCAGGAGGTATGG
 CAGCCATGGTTTCATCTGTGGGTGTTTACAGGAGGTGGACTGGATGAGGAAACTAGCTTTCCGCTACCGG
 AAAGTGAGAGAAATCTATGATAAGCATAAAAGCAACGTGGTGGTCTCCTCAGTCCCAGAGGAAGGAAG
 CACTGCAGAGATTAAGAGCAGAAATGAAGTTTTAACAGATTCCTGGTTAGGAACTGCATTAAGTCCTT
 ACTTCTCATCCAGTCCAGAAAGAATTGTGTGAATGTTCTGATCACTACCACCCAGCTGGTCCAGCCCTG
 GCCAAGGTTCTCCTATATGGACTAGGAGAAATATTTCTATTGAGAATCTATAGTGTACCAAAATTTG
 GTAAGGAGAGCTGCTTTGAGAGAATTGTGTCAAGGTTTGGAAAGAAAGTACATATGTAGTATTGGAGA
 TGGACGAGATGAAGAAATTCAGCCAAACAGCACAAATGCCTTTCTGGAGGATCACAACCATGGAGAC
 CTAGTATCCCTTACCAGGCTTTAGAGCTTGATTTTCTC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG218948 representing NM_001990
 Red=Cloning site Green=Tags(s)

MEEEQDLPEQPVKKAKMQESGEQTIISQVSNPDVSDQKPEPSSLASNLPMSSEEIMTCTDYIPRSSNDYTSQ
 MYSAPYAHILSVPVSETAYPGQTQYQTLQQTQPYAVYPQATQTYGLPPFGALWPGMKPESGLIQTPSPS
 QHSVLTCTTGLTTSQPSPAHYSYPIQASSTNASLISTSSSTIANIPAAAVASISNQDYPTYTILGQNYQA
 CYPSSSFVGTQNSDAESTTLAATTYQSEKPSVMAPAPAAQRLSSGDPSTSPSLSQTPSKDQDQSRK
 NMTSKNRGKRKADATSSQDSELERVFLWDLDETIIFHSLLTGSYAQKYGKDPTVVIGSGLTMEEMIFEV
 ADTHLFFNDLEECDQVHVEDVASDDNGQDL SNYSFSTDFSGSGSGSHGSSVGVQGGVDWVRKLAFRYR
 KVREIYDKHKSNGVGLLSPQRKEALQRLRAEIEVL TDSWLGTALKSLLL IQSRKNCVNVLIITTTQLVPAL
 AKVLLYGLGEIFPIENIYSATKIGKESCFERIVSRFGKKVTVVYVIGDGRDEEIAAKQHNMPFWRITNHGD
 LVSLHQALELDFL

TRTRPLE - GFP Tag - V

Restriction Sites:

SgfI-MluI

ORF Size:	1719 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:	<ol style="list-style-type: none">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_001990.4
RefSeq Size:	6040 bp
RefSeq ORF:	1722 bp
Locus ID:	2140
UniProt ID:	Q99504
Cytogenetics:	1p35.3
Domains:	Hydrolase
Protein Families:	Phosphatase, Transcription Factors
Gene Summary:	This gene encodes a member of the eyes absent (EYA) family of proteins. The encoded protein may act as a transcriptional activator and have a role during development. It can act as a mediator of chemoresistance and cell survival in Ewing sarcoma cells, where this gene is up-regulated via a micro-RNA that binds to the 3' UTR of the transcript. A similar protein in mice acts as a transcriptional activator. Alternative splicing of this gene results in multiple transcript variants. [provided by RefSeq, Sep 2013]