

Product datasheet for **RG238785**

EYA3 (NM_001282560) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	EYA3 (NM_001282560) 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:

>RG238785 representing NM_001282560.
 Blue=ORF Red=Cloning site Green=Tag(s)

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GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTGCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCCGCATCGCC
ATGGAAGAAGAGCAAGATTTACCAGAGCAACCAGTGAAAAAGCCAAGATGCAGGAATCAGGAGAGCAA
ACTATAAGTCAAGTAAGCAATCCAGATGTCAGTGATCAGAAAGCCTGAAACATCAAGCCTTGCTTCAAAC
CTTCCCATGTGAGAGAAATTATGACATGCACCGATTACATCCCTCGCTCATCCAATGATTATACCTCA
CAAATGTATTCTGAAAAACCTTATGCACATATTCTCTCAGTTCCTGTTTCGGAAACTGCTTACCCTGGA
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CCAGCAGCAGCAGTAGCCAGCATCTCAAACCAGGATTATCCACCTATACTATTCTTGGTCAGAATCAG
TACCAGGCCTGCTACCCAGCTCCAGCTTTGGAGTCACAGGTGAGACTAACAGTGATGCAGAGAGCACC
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CTTTCCTCTGGAGACCCTTCTACAAGTCCATCTTTGTCCAGACTACACCAAGTAAAGATACTGATGAT
CAGTCCAGGAAAAACATGACTAGCAAGAACCAGGCAAGAGGAAAGCTGATGCCACTTCTCCCAAGAC
AGTGAATTAGAACGGGTATTTCTGTGGGACTTGGATGAAACCATCATCATCTTCCACTCACTTCTTACT
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ACCCAGCTGGTCCAGCCTGGCCAAGGTTCTCCTATATGGACTAGGAGAAATTTTCTATTGAGAAC
ATCTATAGTGCTACCAAAATGGTAAGGAGAGCTGCTTTGAGAGAATTGTGTCAAGGTTTGGAAAGAAA
GTCACATATGTAGTGATTGGAGATGGACGAGATGAAGAAATTGCAGCCAAACAGCAACTCTATTTCTTA
GACATGGAGGCATTGGGTTGCCAGCTAGAACCAACTGCCCTGATACTCTCATCCAGTTAAGTGGAAAC
CTTAGCAACTATAATAACTA
ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAAAC
```

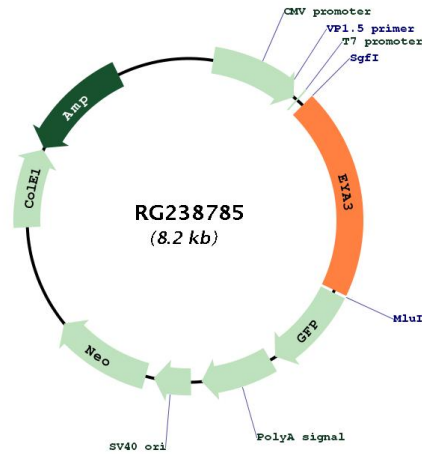
Protein Sequence:

>Peptide sequence encoded by RG238785
 Blue=ORF Red=Cloning site Green=Tag(s)

```
MEEEQDLPEQPVKKAKMQESGEQTIISQVSNPDVSDQKPETSSLASNLMSEIIMTCTDYIPRSSNDYTS
QMYSAPYAHILSVPVSETAYPGQTQYQTLQQTQPYAVYPQATQTYGLPPFASSTNASLISTSSTIANI
PAAAVASISNQDYPTYTILGQNQYQACYPSSSFVGTGQNSDAESTTLAATTYQSEKPSVMAPAPAAQR
LSSGDPSTSPSLSQTPSKDQDDQSRKNMSTSKNRGKRKADATSSQDSELERVFLWLDDEIIIFHSLLT
GSYAQKYGKDPTVVIGSGLTMEEMIFEVADTHLFFNDLEECDQVHVEDVASDDNGQDLSNYSFSTDGFS
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GTALKSLLLIQSRKNCVNLITTTQLVPALAKVLLYGLGEIFPIENIYSATKIGKESCFERIVSRFGKK
VTVYVIGDGRDEEIAAKQQLYFLDMEALGCQLEPTALILFIQLSGLSNYNKL
TRTRPLEMESDESGLPAMEIECRITGTLNGVEFELVGGEGTPEQGRMTNKMSTKGALTFSPYLLSHV
MGYGFYHFGTYPSGYENPFLHAINNGGYNTRIEKYEDGGVLHVSFSYRYEAGRVIGDFKVMGTGFPED
SVIFTDKIIRSNATVEHLHPMGDNDLDGSFTRTFSLRDGGYSSVVDSDSHMHFKSAIHP SILQNGGPMFA
FRRVEEDHSNTELGIVEYQHAFKTPDADAGEERV
```

Restriction Sites:

Sgfl-MluI

Plasmid Map:


ACCN: NM_001282560

ORF Size: 1608 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).

RefSeq: [NM_001282560.2](#)

RefSeq Size: 1823 bp

RefSeq ORF: 1611 bp

Locus ID: 2140

UniProt ID: [Q99504](#)

Cytogenetics: 1p35.3

Protein Families: Phosphatase, Transcription Factors

MW: 59.1 kDa

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]