

## Product datasheet for **RG238699**

### **EYA3 (NM\_001282562) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	EYA3 (NM_001282562) 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:**

>RG238699 representing NM\_001282562.  
 Blue=ORF Red=Cloning site Green=Tag(s)

```
GCTCGTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTGACTG
GATCCGGTACCGAGGAGATCTGCCGCCCGCATCGCC
ATGACATGCACCGATTACATCCCTCGCTCATCCAATGATTATACCTCACAAATGTATTCTGCAAACCT
TATGCACATATTCTCTCAGTTCCTGTTTCGGAACCTGCTTACCCTGGACAGACTCAATACCAGACACTA
CAGCAGACTCAACCCTATGCTGTCTACCCTCAGGCAACCCAAACGTATGGACTACCTCTTTTGGTGCA
TTGTGGCCAGGTATGAAACCTGAAAGTGGTTTAATTCAGACTCCATCTCCAAGTCAACACAGTGTCTT
ACCTGCACTACAGGGTTAACCACAAGCCAGCCAAGCCAGCACATTATTCTTATCCCATTCAGCTTCA
AGCACAATGCCAGCCTGATATCTACTTCTTCTACAATTGCCAATATTCCAGCAGCAGCAGTAGCCAGC
ATCTCAAACCAGGATTATCCACCTATACTATTCTTGGTCAGAATCAGTACCAGGCTGCTACCCAGC
TCCAGCTTTGGAGTCACAGGTGAGCTAACAGTGCAGAGAGCACCACATTAGCAGCAACCACATAC
CAGTCGGAGAAGCTAGTGTATGGCCCTGCACCTGCAGCACAGAGACTTCTCTGGAGACCCTTCT
ACAAGTCCATCTTTGTCCAGACTACACCAAGTAAAGATACTGATGATCAGTCCAGGAAAAACATGACT
AGCAAGAACCAGGCAAGAGGAAAGCTGATGCCACTTCTCCCAAGACAGTGAATTAGAACGGGTATTT
CTGTGGGACTTGATGAAACCATCATCATCTTCCACTCACTTCTTACTGGATCCTATGCCAGAAATAT
GGAAAGGACCCAACAGTAGTGATTGGCTCAGGTTTAACAATGGAAGAAATGATTTTTGAAGTGGCTGAT
ACTCATCTATTTTTCAATGACTTAGAGGAGTGTGACCAGGTACATGTGGAAGATGTGGCTTCTGATGAC
AATGGCCAAGACTTGAGCAACTACAGTTTCTCAACAGATGGTTTCAGTGGCTCAGGAGGTAGTGGCAGC
CATGGTTCATCTGTGGGTGTTTCCAGGAGGTGTGGACTGGATGAGGAACTAGCTTCCGCTACCGGAAA
GTGAGAGAAATCTATGATAAGCATAAAAGCAACGTGGGTGGTCTCCTCAGTCCCCAGAGGAAGGAACA
CTGCAGAGATTAAGAGCAGAAAATGAAGTTTTAACAGATTCCTGGTTAGGAACTGCATTAAGTCTTTA
CTTCTCATCCAGTCCAGAAAGAATTGTGTGAATGTTCTGATCACTACCACCCAGCTGGTTCCAGCCCTG
GCCAAGTTCTCCTATATGGACTAGGAGAAATATTTCTATTGAGAATCTATAGTGTACCAAAAT
GGTAAGGAGAGCTGCTTTGAGAGAATTGTGTCAAGGTTTGGAAAGAAAGTACATATGTAGTGATTGGA
GATGGACGAGATGAAGAAATTCAGCCAAACAGCACAAACATGCCTTTCTGGAGGATCACAAACCATGGA
GACCTAGTATCCCTTACCAGGCTTTAGAGCTTGATTTTCTC
ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAAAC
```

**Protein Sequence:**

>Peptide sequence encoded by RG238699  
 Blue=ORF Red=Cloning site Green=Tag(s)

```
MTCTDIPRSSNDYTSQMYSAPYAHILSVPVSETAYPGQTQYQTLQQTQPYAVYPQATQTYGLPPFGA
LWPGMKPESGLIQTSPSPQHSVLTCTTGLTTSQPSPAHYSYPIQASSTNASLISTSSTIANIPAAAVAS
ISNQDYPTYTILGQNQYQACYPSSSFVGTGQNSDAESTTLAATTYQSEKPSVMAPAPAAQRLSSGDPS
TSPSLSQTPSKDQDDQSRKNMNTSKNRGKRKADATSSQDSELERVFLWDLDETIIFHSLLTGSYAQKY
GKDPTVVI GSGLTMEEMIFEVADTHLFFNDLEECDQVHVEDVASDDNGQDL SNYSFSTDGFSGSGSGS
HGSSVGVQGGVDMRKLAFRYRKYVREIYDKHKSNGVGLLSPQRKEALQRLRAEIEVLTD SWLGTALKSL
LLIQSRKNCVNVLITTTQLVPALAKVLLYGLGEIFPIENIYSATKIGKESCFERIVSRFGKVKTYVYVIG
DGRDEEIAAKQHNMPFWRITNHGDLVSLHQALELDFL
TRTRPLEMESDESGLPAMEIECRITGTLNGVEFELVGGEGTPEQGRMTNKMSTKGALTFSPYLLSHV
MGYGFYHFGTYPSGYENPFLHAINNGGYNTRIEKYEDGGVLHVSFSYRYEAGRVIGDFKVMGTGFPED
SVIFTDKIIRSNATVEHLHPMGDNDLDGSFTRTFLRDGGYSSVVD SHMHFKSAIHP SILQNGGPMFA
FRRVEEDHSNTELGIVEYQHAFKTPDADAGEERV
```

**Restriction Sites:**

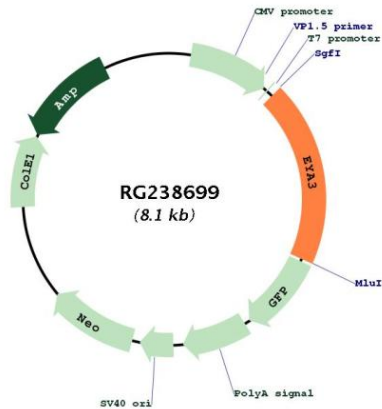
Sgfl-Mlul

**Cloning Scheme:**


- ACCN:** NM\_001282562
- ORF Size:** 1560 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\\_001282562.1](#), [NP\\_001269491.1](#)
- RefSeq Size:** 5961 bp
- RefSeq ORF:** 1563 bp
- Locus ID:** 2140
- UniProt ID:** [Q99504](#)
- Cytogenetics:** 1p35.3
- Protein Families:** Phosphatase, Transcription Factors
- MW:** 57.3 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]

**Product images:**


Circular map for RG238699