

## Product datasheet for **SC336883**

### **EYA4 (NM\_001301012) Human Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	EYA4 (NM_001301012) Human Untagged Clone
Tag:	Tag Free
Symbol:	EYA4
Synonyms:	CMD1J; DFNA10
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

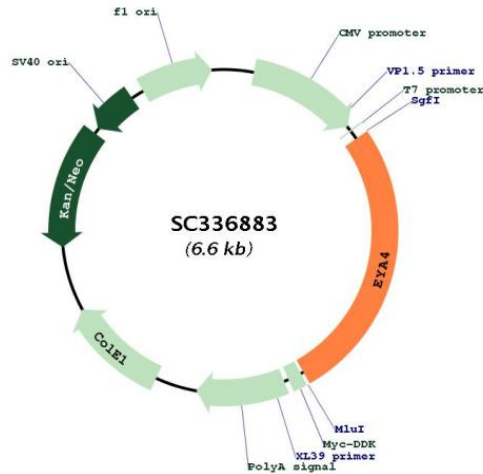


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Fully Sequenced ORF: >SC336883 representing NM\_001301012.  
Blue=Insert sequence Red=Cloning site Green=Tag(s)

```
GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGGAAGACTCCCAGGATTTAAATGAACAATCAGTAAAGAAAACGTGCACAGAATCAGATGTTTCACAA
TCTCAGAATCCAGGTCTATGGAATGCAGGACCTAGCAAGTCCCTACTACTTTGTTGGAGGTGGTGAT
ACTCCAGGTAGCTCCAAACTGGAAAAATCTAATCTCAGCAGCACATCAGTTACTACAAATGGGACAGGA
GTAATTACAAGTAGTGGCTACAGCCCAGATCAGCACATCAGTATTCCCCACAGCTGTATCCTTCCAAG
CCCTATCCACACATTCTTTCTACACCAGCAGCTCAAACAATGTCTGCCTATGCAGGCCAGACTCAGTAT
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TACGATTTGGGTGTGATGTTGCCAGCCATCAAGACAGAGAGTGGACTTTCCCAAACCTCAGTCCCATT
CAGAGTGGCTGCCTCAGTTACAGCCAGGGTCTCTACCCACAGCCAGGCCAGACACCTTATTCTTAC
CAAATGCCAGGTTCTAGTTTTGCACCATCATCTACTATTTATGCAAATAATTCAGTTTCCAATCAACG
AATTTTCAGTGGTTCACAACAGGATTATCCATCCTATACAGCCTTTGGCCAAAACAGTATGCACAGTAT
TATTCAGCATCAACGTATGGAGCGTATATGACATCGAATAACACAGCCGATGGCACACCCCTTCAACC
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AGTCCCTCCACACCCATCAAAGATCTTGATGAGAGAACCTGTAGGAGTTCCTGGGTCAAAGTCCAGAGGA
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ACTAGGAGTAACTGCATAAATGTCTTGGTAACGACAACCTCAACTGATCCCAGCACTTGCGAAGGTTCTA
CTCTATAGTTTAGGAGGTGCTTTCCCATGAGAATATTTACAGTGCAACTAAAATAGGCAAGGAAAGC
TGTTTTGAGCGTATAGTGTCCAGATTTGGCACTAACATAACTTATGTTGTGATTGGAGATGGCCGAGAT
GAGGAGCATGCCCTAACAGCACAAATGCCCTTCTGGAGGATATCCAGTCACTCAGACCTCCTGGCT
CTCCCAAGCACTGGAATTAGAGTATTTGTA
ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC
```

Restriction Sites: Sgfl-Mlul

**Plasmid Map:**


**ACCN:** NM\_001301012

**Insert Size:** 1758 bp

**OTI Disclaimer:** Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

**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\\_001301012.1](#)

**RefSeq Size:** 5393 bp

**RefSeq ORF:** 1758 bp

**Locus ID:** 2070

**UniProt ID:** [O95677](#)

**Cytogenetics:** 6q23.2

**Protein Families:** Druggable Genome, Phosphatase, Transcription Factors

**MW:** 63.9 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 through its protein phosphatase activity, and it may be important for eye development, and for continued function of the mature organ of Corti. Mutations in this gene are associated with postlingual, progressive, autosomal dominant hearing loss at the deafness, autosomal dominant non-syndromic sensorineural 10 locus. The encoded protein is also a putative oncogene that mediates DNA repair, apoptosis, and innate immunity following DNA damage, cellular damage, and viral attack. Defects in this gene are also associated with dilated cardiomyopathy 1J. Alternative splicing results in multiple transcript variants encoding distinct isoforms. [provided by RefSeq, Jul 2014]

Transcript Variant: This variant (5) has multiple differences in its coding region, compared to variant 1. The resulting isoform (e) is shorter than isoform a. Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.