

## Product datasheet for **MG209571**

### **Evc (BC021464) Mouse Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Evc (BC021464) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Evc
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>MG209571 representing BC021464  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGACCTGCACTAAAGATGCGCGCTGCAGCTGGGCCGGGAAGCCCTGCAGGCGGCCGACGCTGCTGG  
 TCCCCGGGTGCTACTGGGTGGCTTCTCGGCCTAGGCCTTGGCTTGTGGCTTGGCTGTCGCGCAGGCCA  
 CTTGCGCGCACGGCTCCAGAAAGATGACAGGAAACGTCTGCTCGGGAGTTCAGAGCCCCCTGCACAGAGC  
 CTACGGGACACTGGCTCTCAAGCCAGGAGGCGCCAGAGAGAAACCGCTCGGGATGAAGACGCCCTGAGG  
 TGTGTGAGCCATCCTTGTAGTGGCAACATCACGGCATTGCACTGAAAGCCAGAGTTGTCTATCCCATCAA  
 CCAGAAGTTCCGGCTCTGGCCGACGGATCCTCCACCCATCGCTGCATGAAACCTGACACAGGCAGCG  
 GCCATCTGCCACCTGCCACCAGCCAGCAGAGGCCTCACCAGCCAGCAGCCTGGGCAGCCTGAGCC  
 AGGCTGGCAAGGAGGACGGCAGCTCCTCTCCAGCATGCGGTCAACCTACAGCGACGCCGATCCTCCA  
 GTGTGCCCTTCTCCGGTGGCAGCTTCCCTGAGATCCTGGCCTGTGAGAGTGTGGACATTGACCTGTGT  
 GTCTGCAGCCTTCACTGAAAGACCTGCTTCAAGTAGACACGGCGCTGAGGCAAGAGAAGACCTGATGT  
 TCATTCAGATTCTAAAGCATGCCTCCTGGATTTTTTCTAAAAAGAAGCCTGATGATGAATTATGCCA  
 GAAGGTTCTTTCCAAACAAGAGCATGATTTGGAGGAATTAGAAAAGGGACTCCAGGCCAGATTGGCGAAC  
 ACAGAAATGTTAGGCACTGGCGACTCTGGCTACGTTTCCCTGGCAGATGTGGAGAGGAAGGAGAGAGAGC  
 TCTCAGAGCAGCTCATAGACAACATGGGAGCTTCTGGAAGCAGATGGAAGCATCCAGCCCCTCAT  
 GGACCAAGTTAAGTGTCCAGCTCCAAGCTCGGCAGTTCATGATGACTCTGACAGGAAGAATGATTGTC  
 GCTGAAGGACTGCTGCATGACTCTCAGGACCTGCATGCTCTGGACACCCTGGAGAGGACAATGGCTCGAG  
 CCCACTTGGCAAGAATGGTGGAGTTCCTGAGAACCAGATCCAGGAGGAGACCAAGTGCAGACTTGTCTGC  
 CATCTCCCGTGGCTGGAGTTGCTGACTGTCCAGGGCAGCTGTCTGGGAGGCAGAAGGAGGAACCTCTG  
 ACTCAGCAGCACAGGCCTTCTGGGAGGAGCAGAGCGTTTTTGGCAGGAATTCATGCAGCGGGCAAG  
 ATCTGGTCCAGCGCTCACAGGCTCGCCAGGAGGAGCAGCAGCAGAGCTCACACAGACCAAGAAGAAGA  
 ACGGAGGAGTTTCTGGCTGATTCACAGCTGACCTCGGATCCTGGGGAATTCCTCAAGGCTTTTCATGAG  
 GTCCTGGAGAGGACGGCTGACAAGGAGTGACCAGGAGGAGACGAGGACACCTGGATCACTGAGGCCA  
 TGGCTGCGCTCTGCCAGGAGCTGTACTGTAGCACCATGGGAACCTTCCAAAAGTTTGTGGACTCCCTGTT  
 CCTGAAGACCCTCCAGAAGTGACCAGCCTCCCTGTGGGAGAATGTGAGACCCTGCGGCAGCAGGTCAG  
 GAGCAGGACGCAAGGAGCTGGGACAGGACAGCCGATTCGCAGACGACAGTGGGACTCCTATGTGATC  
 TATTGGAGCAGGACAAACGGGTGTGGCTGGAGGAGGAGTACGCTGTCCACGGTGTGCAGAGGACAGCTGCG  
 GGATCACACGAGAGCACCATCCACGGCGTCTGAGCAGATTCAGTGGCCTTTCTGAAGAG

**ACGCGTACGCGGCCGCTCGAG** – GFP Tag – GTTTAA

**Protein Sequence:**

>MG209571 representing BC021464  
 Red=Cloning site Green=Tags(s)

MTCTKDARLQLGREALQAAPTLLVPAVLLGGVLLGLGLWLGCRAHLRRLQKDDRKRLLSSEPPAQS  
 LRDTGSQARRRQRETADEDAPEVCEPSLSGNITAFALKARVVYPINQKFRPLADGSSHPSLHENLTQAA  
 AILPHLPHQPAEASPASSLSQAGKEDGSSSSMRSTYSDDRILQCAFRLRVGSPFEILACESVDIDL  
 VCSSLHLKDLLQVDTALRQEKHLMFIQILKACLDFFPKKKPDDELQKVLQSKQEHDLLEEKGLQARLAN  
 TEMLTGDSGVSLADVERKERELSEQLIDNMGAFWKQMESIQPTLMDQFKCSSSKARQFMMTLTGRMIV  
 AEGLLHDSQDLHVLDTLERTMGRAHLARMVEFLRTQIQEETKRLAAISRLELLTVQGQLSGRQKEELL  
 TQQHKAFWEEAERFGREFMQRGKDLVQASQARQAEAAELTQTQEEERRSFLADSQLTSDPGEFLKAFHE  
 VLERQRLTRSDQEGDEDTWITEAMAALCQELYCSTMGTQKQFVDSLFLKTLPEVTSPLPVGECETLRQVQ  
 EQAARQLGQADRFRRRQWGLLCDLLEQDKRVWLEEGTLSTVLRQLRDHHESTIHGVL SRFSGLSEE

**TRTRPLE** – GFP Tag – V

**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**



**ACCN:** BC021464

**ORF Size:** 1881 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:** [BC021464.1](#)

**RefSeq Size:** 2209 bp

**RefSeq ORF:** 1883 bp

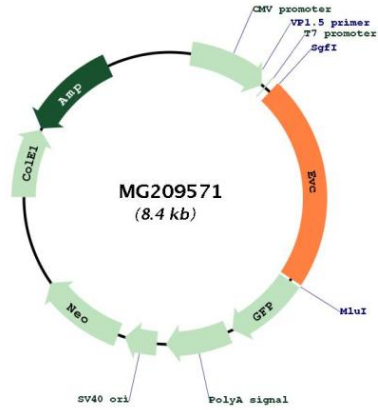
**Locus ID:** 59056

**Cytogenetics:** 5 B3

**Gene Summary:**

Component of the EvC complex that positively regulates ciliary Hedgehog (Hh) signaling (PubMed:17660199, PubMed:24582806). Involved in endochondral growth and skeletal development (PubMed:17660199).[UniProtKB/Swiss-Prot Function]

**Product images:**



Circular map for MG209571