

## Product datasheet for **SC114725**

### **PGEA1 (CBY1) (NM\_015373) Human Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	PGEA1 (CBY1) (NM_015373) Human Untagged Clone
Tag:	Tag Free
Symbol:	PGEA1
Synonyms:	arb1; C22orf2; CBY; Chibby1; HS508I15A; PGEA1; PIGEA-14; PIGEA14
Mammalian Cell Selection:	None
Vector:	<u><a href="#">pCMV6-XL5</a></u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for NM_015373, the custom clone sequence may differ by one or more nucleotides

```
ATGCCTTCTTTGGGAATACGTTTCAGTCCGAAGAAGACACCTCCTCGGAAGTCGGCATCTCTCTCCAACC  
TGCATTCTTTGGATCGATCAACCCGGGAGGTGGAGCTGGGCTTGGAAATACGGATCCCCGACTATGAACCT  
GGCAGGGCAAAGCCTGAAGTTTGAAAAATGGCCAGTGGATAGCAGAGACAGGGGTTAGTGGCGGTGTGGAC  
CGGAGGGAGGTTTCAGCGCCTTCGCAGGCCGAACCAGCAGTTGGAGGAAGAGAACAATCTCTTGCGGCTGA  
AAGTGGACATCTTATTAGACATGCTTTCAGAGTCCACTGCTGAATCCCACTTAATGGAGAAGGAAGTGA  
TGAAGTGGAGGATCAGCCGAAGAGAAAAATGA
```



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**5' Read Nucleotide Sequence:**

>OriGene 5' read for NM\_015373 unedited  
 GTATACGACTCACTATAGGCGGCCCGATTTCGGCACGAGGAGGGAGCTGGCTTTGCT  
 TTCATCAGGCCAAAGAGCCTTTCTTTGGGAATACGTTTCAGTCCGAAGAAGACACCTCCTC  
 GGAAGTCGGCATCTCTCCAACCTGCATTCTTTGGATCGATCAACCCGGGAGGTGGAGC  
 TGGGCTTGAATACGGATCCCCGACTATGAACCTGGCAGGGCAAAGCCTGAAGTTTGAAA  
 ATGGCCAGTGGATAGCAGAGACAGGGGTTAGTGGCGGTGTGGACCGGAGGGAGGTTTCAGC  
 GCCTTCGAGGCCGAACACAGCAGTTGGAGGAAGAGAACAATCTCTTGGCGCTGAAAGTGG  
 ACATCTTATTAGACATGCTTTCAGAGTCCACTGCTGAATCCCACTTAATGGAGAAGGAAC  
 TGGATGAACTGAGGATCAGCCGGAAGAGAAAATGAAGACCCAGAGACATTTATTGGGGA  
 GTAGGATGTGGCTGAGTGCTTTTTTTTTGGCCAGACTAGCGGATTCAGTCTGGAAGAGA  
 GTATCATATAATGAGACCCACAGGCACTGGCACCTTGGGTTGGCAATAGAAGGTGACAT  
 GGAATGGAGAAAACCAAGATTCCAGATGGGGATAGTAAGTGAAGGTGCTTCAGATGCAC  
 TGCCTGCGGGTGCAGTCTGAAAACAGACCGCACAGAGGCTGNGGGCTGCTGATGAGC  
 CTTTTTGGTGCTCTCCACACACAAGCTCGCAAACACACATGTCCCAAATAGCTCTGNTGG  
 NGNNTTGTGTGGGAAGAGCGNCTGNAGNTCATTCTCTACCCCTATGTTNGTGTGGC  
 GTGTGACAGCAGTCTACGAGCTCTGGGTTGGGGTCATGAATGAACGGCTCTCCTTGTCT  
 TAAGNCAGCCTCTCTTTCTTGCTTAAN

**3' Read Nucleotide Sequence:**

>OriGene 3' read for NM\_015373 unedited  
 GCCCAATCTAGAGTCGAGTTTTTTTTTTTTTTTTTTTATTTAACATCGTTTAATAAAAAA  
 GTAGTAGTCAACAGGAAAGTAGCATAAAAATATAGTGTGTTGTGGAAGGCTGGTGCT  
 TGCTGCTGAGAAGCTGAAGCCAGAGGAGCCAGGTGTGAGGAAGGAGGATTCTTTAAAGG  
 CAAGAAGAGAGAGCCTGCCTTTAAGAGCCAAGAGAGCCGCTCATCCATGACCCCAACAC  
 AGAGCTCTGTAGAACTGTGTACACGCCAAACCAACATAAGGGGGTGAAGAGAATGAA  
 CTCCAGCCGCTTCTCCCAACACAACCCAAACAGAGCTATTCTGGGACATGTGTGTTGCGA  
 GCTTGTGTGTGGAGAGCACAAAAAGCTCATCAGCAGCCCGAGGCTCTGTGCGGTCTGG  
 TTTTCAGACTGGCACCCGAGGAGTGCATCTGAAGCACCTTCTAGTTACTATCCCCATC  
 TGGAACTTTGGTTTTCTCCATCCATGTACCTTCTATTGCCAACCAAGGGTGCAGTG  
 CCTGTGGGTCTCATTATGATACTCTCTCCAGGACTGAATCCGCTAGTCTGGCCAAAA  
 AAAAAGCACTCAGCCACATCCTACTCCCCAATAAATGTCTCTGGGGTCTTCATTTTCTCT  
 TCCGGTGTATCCTCAGTTCATCCAGTTCTCTTCTCCATTAAGTGGGATTCAGCAGTGGC  
 CTGAAAGCATGTCTAATAAGATGTCCACTTNTCAGCCGCAGAGATGGTCTCTTCTCCCA  
 ACTGCTGGGTCCGCTGCGAAAGCGCTGAACCTCCCTTCGGTNCACACCGCCACTAACCC  
 CTGTCTCTGCTATCCCTGGCCATTTCAAACCTCAGGCTTTGCTGCCAGTTCATATTCGGG  
 GATCCGATTCCAGCCAGCTCCCTCCCGGGTTGATCGATCAAAAAATGCGGTTGGAGAAGA  
 TCGCTTCCGAG

**Restriction Sites:**

NotI-NotI

**ACCN:**

NM\_015373

**Insert Size:**

1140 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\\_015373.3](#), [NP\\_056188.1](#)

**RefSeq Size:** 1147 bp

**RefSeq ORF:** 381 bp

**Locus ID:** 25776

**UniProt ID:** [Q9Y3M2](#)

**Cytogenetics:** 22q13.1

**Protein Families:** Transcription Factors

**Gene Summary:** Beta-catenin is a transcriptional activator and oncoprotein involved in the development of several cancers. The protein encoded by this gene interacts directly with the C-terminal region of beta-catenin, inhibiting oncogenic beta-catenin-mediated transcriptional activation by competing with transcription factors for binding to beta-catenin. Two transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jul 2008]  
Transcript Variant: This variant (1) represents the predominant transcript and encodes isoform (a), which is shorter at the N-terminus compared to isoform b.