

## Product datasheet for **RG203377**

### **TOE1 (NM\_025077) Human Tagged ORF Clone**

#### **Product data:**

|                           |   |
|---------------------------|---|
| Product Type:             | Expression Plasmids                     |
| Product Name:             | TOE1 (NM_025077) Human Tagged ORF Clone |
| Tag:                      | TurboGFP                                |
| Symbol:                   | TOE1                                    |
| Synonyms:                 | hCaf1z; PCH7                            |
| Mammalian Cell Selection: | Neomycin                                |
| Vector:                   | pCMV6-AC-GFP (PS100010)                 |
| E. coli Selection:        | Ampicillin (100 ug/mL)                  |



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**ORF Nucleotide Sequence:**

>RG203377 representing NM\_025077  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGCCGCCGACAGTGACGATGGCGCAGTTTCAGCTCCCGCAGCTTCCGACGGTGGTGTGACAAAAGCA  
 CAACATCTGGGGAGGAGCTAGTAGTCCAGTTCCTCGTAGTGGATGTGCAAAGCAACAACCTCAAGGAGAT  
 GTGGCCATCCCTCCTGCTAGCCATAAAGACAGCTAATTCGTTGGCTGTGGACACGGAGCTGAGTGGGCTT  
 GGGGACAGGAAGAGTTTCTGAACAGTGCATTGAGAACGTTACAAGGCCGTGTGTCATGCTGCCAGGA  
 CCCGTTCTATCCTTTCCCTGGGCTCGCTGCTTCAAGCGGCAGCCAGACAAGGGTGAACATTCCTATCT  
 GGCTCAAGTGTTCAATCTCACTCTGCTGTGCATGGAGGAGTATGTCATAGAACCAAAGTCTGTGCAGTTC  
 CTGATACAGCATGGCTTCAACTCAACCAGCAGTATGCCAAGGCATCCCCTACCATAAGGGCAATGACA  
 AGGGTGATGAGAGCCAGAGCCAGTACGACCCCTATTCCTGGAGCTAATCCGAGCCCGCCGCCCT  
 GGTGCTACACAATGGCCTTATAGACTTGGTGTCTGTACCAGAACTTCTATGCACACCTCCCTGAGAGT  
 CTGGGAACCTTACCGCTGACCTGTGTGAGATGTTCCAGCAGGCATTTATGACACCAAATATGCTGCTG  
 AGTTTCATGCCCGTTTCGTTGGCCTCCTACTTAGAATATGCCTTCCGAAATGTGAACGGGAAATGGGAA  
 GCAGCGGGCAGCTGGCAGCCACACCTTACCCTGGAGTTCTGCAACTATCCTTCCAGCATGAGGGACCAT  
 ATTGATTACCGCTGCTGCCTGCCCCAGCAACCCACCGTCTCATCCACCAGCATCTGTGACAACCTTCT  
 CGGCTTATGGCTGGTGGCCCTGGGACCACAGTGTCTCAGTCTCAGCATATTGACCTTATCATTGACAC  
 TGATGAGGCTGCGGCAGAGGACAAGCGGCGACGGCAGCAGTAGGAAAAACGGAAGAGGGCTTTATTG  
 AACCTACCGGGGACACAGACCTCTGGGGAAGCTAAGGATGGTCTCCCAAGAAGCAGGTCTGTGGGGATA  
 GCATCAAGCCTGAAGAAACCGAGCAGGAGTGGCTGCCGATGAAACTAGGAACCTGCCTCACTCCAAGCA  
 AGGCAACAAAAATGACTTAGAGATGGGGATTAAGGCAGCAAGGCCTGAAATAGCTGATAGAGCTACCTCA  
 GAAGTGCCAGGGAGCCAAGCCAGTCTAACCAGTGCCTGGGGATGGATTGCACCGGGCTGGTTTTGATG  
 CCTTTATGACAGGTTATGTGATGGCCTATGTGGAAGTGAGCCAGGGACCGCAGCCCTGCAGCTCTGGACC  
 CTGGCTCCCTGAATGCCACAATAAGGTATATTTGAGTGGCAAAGCTGTACCCCTCACAGTGGCCAAGAGC  
 CAGTTCTCTGTTCTCCAAAGCCACAATCAGAAGATGAAGCTCACTTGGGGCAGTAGC

**ACGCGTACGCGGCCGCTCGAG** - GFP Tag - GTTTAA

**Protein Sequence:**

>RG203377 representing NM\_025077  
 Red=Cloning site Green=Tags(s)

MAADSDDGAVSAPAASDGGVSKSTTSGEELVVQPVVDVQSNFKEMWPSLLLAIKTANFVAVDTELSGL  
 GDRKSLLNQCIERYKAVCHAARTRISLSLGLACFKRQPDKGEHSYLAQVFNLTLLCMEEYVIEPKSVQF  
 LIQHGFNFNQYAQGIPYHKGNKGDSESQSVRTLFLLELIRARRPLVLHNLIDLVLFLYQNFYAHLPES  
 LGTFTADLCEMFAGIYDTKYAAEFHARFVASYLEYAFKRCERENKQRAAGSPHLLTLEFCNYPSSMRDH  
 IDYRCCLPPATHRPHPTSIDCNFSAYGWCPGQPCQSHDIDLIIIDTDEAAAEDKRRRRRRREKRKRALL  
 NLPQTQTSGEAKDGPVKQVCGDSIKPEETEQEVAADETRNLPHSKQGNKNLDEMGIKAARPEIADRATS  
 EVPGSQASPNPVPDGLHRAGFDAMTYVMAYVEVSQGPQPCSSGPWLPCHNKVYLSGKAVPLTVAKS  
 QFSRSSKAHNQMKL TWGSS

**TRTRPLE** - GFP Tag - V

**Restriction Sites:**

Sgfl-MluI

**Cloning Scheme:**


**ACCN:** NM\_025077

**ORF Size:** 1530 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:** [NM\\_025077.4](#)

**RefSeq Size:** 2113 bp

**RefSeq ORF:** 1533 bp

**Locus ID:** 114034

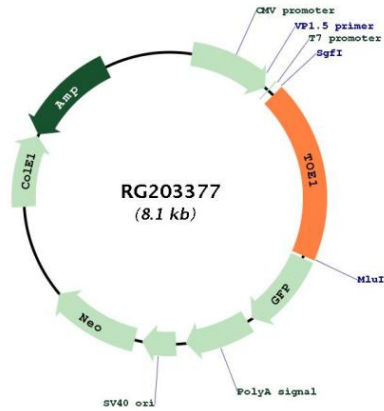
**UniProt ID:** [Q96GM8](#)

**Cytogenetics:** 1p34.1

**Protein Families:** Stem cell - Pluripotency, Transcription Factors

**Gene Summary:** Inhibits cell growth rate and cell cycle. Induces CDKN1A expression as well as TGF-beta expression. Mediates the inhibitory growth effect of EGR1. Involved in the maturation of snRNAs and snRNA 3'-tail processing (PubMed:28092684).[UniProtKB/Swiss-Prot Function]

**Product images:**



Circular map for RG203377