

Product datasheet for **SC304228**

TOGARAM1 (NM_015091) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	TOGARAM1 (NM_015091) Human Untagged Clone
Tag:	Tag Free
Symbol:	TOGARAM1
Synonyms:	FAM179B; KIAA0423
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>SC304228 representing NM_015091. Blue=Insert sequence Red=Cloning site Green=Tag(s)

```
GCTCGTTTAGTGAACCGTCAGAATTTGTAAACGACTACTATAGGGCGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGGCGGCTGCCCTCCGCGCTGCTTCTGCTGCCGCCCTTCCAGTCTCTACCTATCGGCTCCAG
AGCCGCAGTCGTCTTCCGCCCCAGAGACCGATGATAGTCGAGTTGGGGCATTATGAGAGGAGAGAAA
AACTACTACTTCCGTGGAGCTGCGGGGGACCACGGTTCCTGCCCCACTACAACCTCGCCTTGGCCTCG
GCCCTCTGATGCCCTCGGAGGCAGTCTCAAGCAGCTGGTCTGAGTCTGGAGGCGGTTTGTGAGGGGA
GATGAAGAGGACACTCGGCTCCTCAACTCCTCCGCACTGCCCGGATCCTTCTGAGGCCTCCAGGCT
TTGCAAGCTGCTTGGCCGGCGGGGCGGTCGACTTGGCTTCCCCGACGCAAGGAAGCTTGTATCGG
GCACTGGGCCGAGTGCTTGTGGAAGGAGGTAGTGATGAGAAGCGGCTCTGCTTGCACCTTCTCGGAC
GTTCTCCGGGTCAGGGGAGGCAGGCCAGCTTGAAGAGGCCCTTAGCTTAGCACTTTTGCCTCAACTA
GTTGTCTCGTTACGGGAAGAGAATCCAGCCCTGCGGAAAGATGCGCTGCAGATCCTTCATATATGCTG
AAACGTAGTCCTGGAGAGGTGCTGAGAAGCCTTATACAACAAGGACTGGAAAGTACCGATGCCCGACTT
AGAGCTTCCACAGCACTACTGCTTCCATCTTGCTTACTACTGAGGACTTGTGCTTGGTCTGGATCTC
ACCGAGGTGATAATATCCCTAGCCCGAAAGCTTGGTGATCAGGAGACAGAAGAAGAATCTGAGACAGCT
TTCTCCGCACTTCAACAAATTGGGGAGCGACTTGGCCAAGACAGGTTTCAATCTTACATTTCTCGTCTG
CCCTTGCCCTGAGGAGACTACAATCGCCGCTGGAGTCCCAGTTTGGAAAGTCAAGTTCCTTATTAT
TTGGAAGTTGAAGCCTCTGGATTTCTGAAGATCCCCTTCCCTGTGCACTGACTCTTCCAACAGCAAT
CTTAAATTTGGGATTATTCCTCAGGAGTGCATTACGATTATTGGATCAGGAAGACTATAAGAACCGG
ACCCAGGCCGTCGAAGAATAAGCAGGTGCTGGGAAAATTTAACCTAGTTCTACTCCTCATTCTAGT
CTTGTGGCTTATTAGTTTGTATATAATTTGTTAGACGATTCTAACTCAAAGTGGTGCATGGCACA
CTTGAAGTCTGCATTTACTGGTTATTCGCTTGGAGAGCAGGTACAGCAGTTCTTGGGACCAGTTATA
GCAGTCTCTGCAAAGTGTGGCGGACAACAAGTTGGTGATCAAACAAGAATACATGAAAATCTTCTC
AAGCTAATGAAGGAAGTAGGACCTCAGCAGGTGCTTTGTTTACTCCTGGAACATCTCAAACATAAGCAT
TCCAGAGTGAGAGAGGAGGTGGTGAACATTTGCATCTGCTCCCTGCTGACCTATCTAGTGAGGATTT
```



[View online >](#)

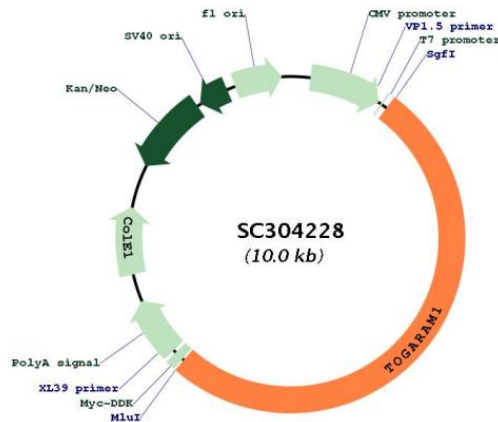
GACTTGCCCAAACCTGTCCTTTGATCTTGCCCCAGCTCTTGTAGATAGCAAACGCAGGGTACGCCAAGCA
 GCTTTAGAAGCTTTTGCCGTATTGGCATCATCAATGGGCTCAGGTAAAACCAGCATCCTTTTTAAAGCT
 GTGGATACAGTTGAACTGCAAGATAATGGAGATGGAGTGATGAATGCTGTGCAGGCCAGATTGGCTAGG
 AAAACCTTACCAAGGCTCACAGAGCAGGGATTTGTGGAATATGCAGTACTGATGCCATCTTCTGCCGGG
 GGTAGGTCAAACCATTTGGCACATGGAGCAGATACGGACTGGCTTTTGGCTGGTAACAGAACTCAGAGT
 GCACACTGTCACTGTGGTGACCACGTGAGGGATAGCATGCACATTTATGGATCTTACAGCCCAACTATC
 TGTACCCGAAGGGTATTAAGTGCAGGAAAAGGAAAAAATAATACCATGGGAAAATGAGCAACCTGGA
 ATCATGGGAGAAAACCAGACCTCCAATTCCAAGGATATAGAGCAGTTTTCAACATATGATTCATCCCA
 TCTGCAAATTAAGCTTTCTCAAGGAATGCCAGTCAATGATGATTTATGTTTTAGCAGAAAAAGAGTA
 TCAAGAAACTTATTTCAGAATAGTCGGGATTTTAAACCAGATTGTCTTCTTTATGTGCTGCTGGTACT
 ACTGGGACTCATCAAACAAATCTTTCTGGGAAATGTGCACAACCTGGATTTTACAAAATATGTGGTAAA
 ACTGGCAGTGTGGTTCTGACTTACAATCCTAGGGACAACCTAGCAGTCAAGAAAAAGTGTATGCT
 AGCCTCAATTTTGGCAGTAAGACACAGCAAACATTTGGTAGTCAAACAGAGTGTACTTCTCAAATGGT
 CAAAATCCAAGTCCAGGAGCTTACATCCTTCCATCCTATCCTGTCTCATCACCTCGAACTAGTCCAAG
 CATACATCTCCTTTATATATCTCAAAGAAGTCTCAAGATAATTCTGTTAATTTCTCAAATCCTGG
 CCTCTTAAAAGCTTCAAGGACTATCAAAGCCAAGTCCACAGAAGAAGCTTGTACGCCAAAAATCGTCT
 GATCCTACGGGTAGAAATCATGGAGAAAATTTCTCAAGAAAAACCTCCAGTTCAGCTTACACCTGCCTTG
 GTGAGATCGCCATCTTCCCGACGAGGTCTAAATGGGACAAAGCCTGTTCCCTCCCATACCAAGGGGAATA
 AGCCTTTTGCCTGATAAAGCTGATTTAAGCACAGTGGGACACAAAAAGAAAGAGCCTGATGATATTTGG
 AAGTGTGAAAAAGATAGTCTTCAATGATCTTTCAGAATTAATTTCAAGGATAAAGATTTGGATCAA
 GAAGAGATGCATAGCTCTTAGGTCCTTCGTAATAGTGCAGCTAAGAAAAGAGCAAACCTGAGTGGC
 AGTACTTCAGATCTTGAAGCCCTGATTTCTGCAATGAAGCTCGACTTGACGATGGACTCCCGCTCTG
 TCTTCTCACCAAACATCAATTTTACAGTGAAGTGGAGTTTACAGCCAAAGAATCACTGACTTCTTCT
 CTGTCTACAACCTCCCAGGGGAAGAGAATAATGTCAAGCATATTTCCAACATTTGGGTCAAACCTTGT
 CCAACAAGACTTTCTTCTGCAAAGAAAAAATTTCTCATATTGCTGAACAAAGCCCGCAGTGCAGGGTCA
 TCATCAAATCCACAGCAAATTTCCAGTTTTGACTTCAACAACCACAAAGGCTTTATCAGAAGACTCAGTA
 GTAGTTGTTGAAAAGGCGTATTTGGAAGTTAAGTTCAGCACCAGCAACCTGCAGCCAATCAGTGATA
 TCTTCTGTGAAAATGGGATACATTTTCAATTAACAAAGTATTGAACCACCATCAGGGATTTATGGA
 AGATCAGTCCAGCAAAATATTTTCATCATATCTTGATGTTGAGAATGAAAAAGATGCTAAAGTTCTATT
 TCTAAATCTACTATAACAAGATGAGACAAAAGAGAAAAGAAGAGAAAAGAACTGTTTCAATAAAGAT
 TGTGAAAAGAAGGAAAAAATTTCTGGGAACGAATGAGACATACAGGAAGTGAAGAAATGGCATCTGAA
 AGTGAACACCTACTGGAGCTATTTACAGTATAAAGAAAGGATGCCTTCTGTCACTCATAGTCCAGAA
 ATAATGGATCTGTGAGAAGTACGACCATTCTCTAAACCAGAAATAGCACTGACAGAAAGCCCTGAGGCTT
 TTGGCTGATGAGGATTGGGAGAAGAAAATTTGAGGGACTGAATTTTATTAGATGCTTAGCTGCTTTTCAT
 TCTGAGATACTGAACACAAAGTTGCATGAAACAAATTTTGCAGTTGTTCAAGAGGTGAAAAATTTACGT
 TCTGGAGTTTCTCGTGTCTGTGGTCTGTTAAGTGTCTTTTCACTTATTTGAAAAGAGCATGGAT
 CAAGAGCTAGATACCACAGTAAAAGTTTGTGCAAGGCTGGTGAATCAAATACATTTATAAGAGAA
 GATGTTGACAAAGCATTGAGAGCTATGGTTAATAATGTAACCTCTGCACGTGCAGTTGTTTCTTATC
 AATGGTGGACAAAGGATTTATGGTCAAGAGTGTCTTCTCATGATGTGCATCCTAACTTTGAAAAA
 ATGCTTGAAGATATGTCCATCTAAAGATTTGCCATATATTAAGGACTCTGTTAGAAACTTACAGCAA
 AAGGGTTTGGGGAGATACCATTAGATACTCCTCAGCAAAGGAAGACGATCTCATACTGGCAGTGTT
 GGAAATACAAGATCATCATCTGTTTCTAGAGATGCTTTCAATTCAGCTGAAAGAGCTGTAACCTGAAGTT
 CGTGAAGTACCAGAAAACTAGTCCCTCGTAATTCCTTAGAAAGTGTGAGTACCTTAAACTCATAACT
 GGCTTATTAATGCAAAGACTTTCTGTGATCGTATTAATGGGATTAAGCAGCTTTTATCAGATACAGAA
 AATAATCAAGACCTTGTGTTGGAACATTGTGAAGATTTTGTGCTTTTAAATCTCGACTTCATGAT
 TCTAATAGTAAAGTAAATCTGGTGGCTCTGAAACAATGCACAAAATGATTCCTCTACTTAGAGACCAC
 TTATCTCTATAATCAACATGCTAATTCAGCAATAGTGGATAACAATCTGAATTCGAATCCAGGC
 ATCTATGGGCTGCTACAAATGTTGTTCAAGGACTGAGTCAAGCATGTAGACAATTACTTACTTCTACAG
 CCATTTTGCAAAAAGCTCAGTTTTTAAATGGAAAAGCAAACAGGACATGACGGAAAAGCTTGCTGAT
 ATTGTTACGGAACCTTATCAAAGGAAGCCGATGCCACAGAGCAGAAAAGTGTGGTTGTTTTATGGCAT
 CTCTTAGGAAATATGACAAATAGTGGCTCTCTGCTGGAGCTGGAGGAAATATACGAACGCCACAGCT
 AAATTATCAAAGCACTTTGCACAGATGGGTGAGAATCTGTTAATCAGGCTGCATCTCAACCACCA

CATATCAAAAAGAGTTTGGAGGAATTACTCGATATGACAATTTTAAATGAATTATGA
 ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGAT
 TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC

Restriction Sites:

Sgfl-MluI

Plasmid Map:



ACCN: NM_015091

Insert Size: 5163 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).

OTI Annotation: This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.

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_015091.3](#)

RefSeq Size: 6280 bp

RefSeq ORF: 5163 bp

Locus ID: 23116

UniProt ID: [Q9Y4F4](#)

Cytogenetics: 14q21.2

MW: 189.4 kDa

Gene Summary: Required for normal structure and function of primary cilia. Plays a role in the organization of axoneme microtubule bundles in primary cilia (By similarity). Interacts with microtubules and promotes microtubule polymerization via its HEAT repeat domains, especially those in TOG region 2 and 4 (By similarity).[UniProtKB/Swiss-Prot Function]
Transcript Variant: This variant (2) lacks an in-frame exon compared to variant 1. It encodes isoform 2, which is shorter than isoform 1.