

## Product datasheet for **RG207671**

### **MATH5 (ATOH7) (NM\_145178) Human Tagged ORF Clone**

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** MATH5 (ATOH7) (NM\_145178) Human Tagged ORF Clone  
**Tag:** TurboGFP  
**Symbol:** MATH5  
**Synonyms:** bHLHa13; Math5; NCRNA; PHPVAR; RNANC  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-AC-GFP (PS100010)  
**E. coli Selection:** Ampicillin (100 ug/mL)  
**ORF Nucleotide Sequence:** >RG207671 representing NM\_145178  
**Red=Cloning site Blue=ORF Green=Tags(s)**

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGAAGTCCTGCAAGCCAGCGGCCCGCCGGGAGCGCGGTTGCACCCCGTGC GCGGGCGGCACCG  
AGTGCGCGGGCACGTGCGCCGGGCGGGCGGCTGGAGAGCGCGCGCAGGCGCCTGGCGCCAACGC  
GCGCGAGCGCCCGCATGCAGGGGCTCAACACTGCCTTCGACCGCTTACGCAGGTTGGTCCCCAGTGG  
GGCCAGGATAAAAAGCTGTCCAAGTACGAGACCCTGCAGATGGCCCTGAGCTACATCATGGCTCTGACCC  
GGATCCTGGCCGAGGCCGAGCGATTTCGGCTCGGAGCGGGACTGGGTGGGTCTCCACTGTGAGCACTTCGG  
CCGCGACCACTACCTCCCGTTCCCGGGCGGAAGCTGCCGGGCGAGAGCGAGCTGTACAGCCAGAGACTC  
TTCGGCTTCCAGCCCAGCCCTCCAGATGGCCACC

**ACGCGTACGCGGCCGCTCGAG** - GFP Tag - GTTTAA

**Protein Sequence:** >RG207671 representing NM\_145178  
**Red=Cloning site Green=Tags(s)**

MKSCKPSGPPAGARVAPPCAGGTECAGTCAGAGRLESAARRRLAANARERRRMQLNTAFDRLRRVVPQW  
GQDKKLSKYETLQMALSYIMALTRILAEAEERFGERDWWGLHCEHFGRDHYPFPGAKLPGSELYSQRL  
FGFQPEPFQMAT

**TRTRPLE** - GFP Tag - V

**Restriction Sites:** SgfI-MluI



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**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\\_145178.4](#)

**RefSeq Size:** 1487 bp

**RefSeq ORF:** 459 bp

**Locus ID:** 220202

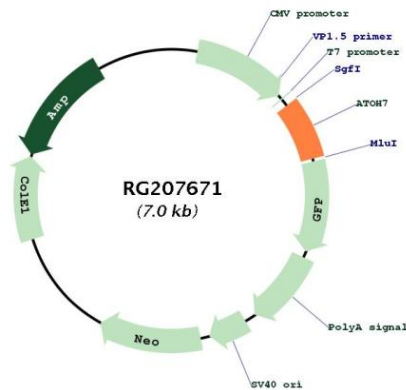
**UniProt ID:** [Q8N100](#)

**Cytogenetics:** 10q21.3-q22.1

**Protein Families:** Transcription Factors

**Gene Summary:** This intronless gene encodes a member of the basic helix-loop-helix family of transcription factors, with similarity to Drosophila atonal gene that controls photoreceptor development. Studies in mice suggest that this gene plays a central role in retinal ganglion cell and optic nerve formation. Mutations in this gene are associated with nonsyndromic congenital retinal nonattachment. [provided by RefSeq, Dec 2011]

**Product images:**



Circular map for RG207671