

## Product datasheet for **RG208228**

### HEATR7B2 (MROH2B) (NM\_173489) Human Tagged ORF Clone

#### Product data:

|                           |                                                                             |
|---------------------------|-----------------------------------------------------------------------------|
| Product Type:             | Expression Plasmids                                                         |
| Product Name:             | HEATR7B2 (MROH2B) (NM_173489) Human Tagged ORF Clone                        |
| Tag:                      | TurboGFP                                                                    |
| Symbol:                   | HEATR7B2                                                                    |
| Synonyms:                 | HEATR7B2; SPIF                                                              |
| Mammalian Cell Selection: | Neomycin                                                                    |
| Vector:                   | pCMV6-AC-GFP (PS100010)                                                     |
| E. coli Selection:        | Ampicillin (100 ug/mL)                                                      |
| ORF Nucleotide Sequence:  | >RG208228 representing NM_173489<br>Red=Cloning site Blue=ORF Green=Tags(s) |

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGACACTTAGTACAGAGGAATCCATAGAGATGTTTGGGGATATTAACCTCACTCTTGCCATGCTGAACA  
 AGGAAGATATTGTTAACAAGGAAGACATTTACAGTCATCTCACTTCTGTTATTCAGAATACTGACATCTT  
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TCGACAGCACTTGTCTCTACAGGAGCTGTGAACTTCCTTCACCACAGCAGCTACTGGCCAGACTTC  
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 GAGTTACTAGACAGAGAACAAGTACCACACGACTCCAAGCACTTCGTCAGATCCGTGTATTAGTGTC  
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ACGCGTACGCGGCGGCTCGAG – GFP Tag – GTTTAA

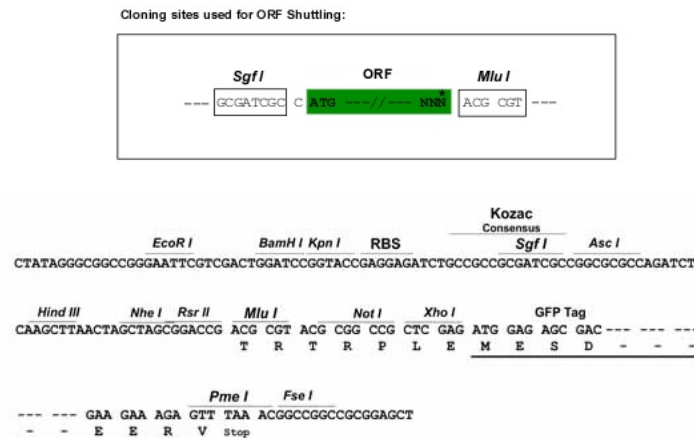
Protein Sequence: >RG208228 representing NM\_173489  
Red=Cloning site Green=Tags(s)

MTLSTEEESIEMFGDINLTGLMLNKEDIVNKEDIYSHLTSVIQNTDILDDAIVQRLIYYASKMDRDNMLR  
EIRMLAGEVLVSLAAHDFNSVMYEVQSNFRILELPDEFVVLALAEATSYVSQSIPFMMTLLTMQTMLR  
LAEDERMKGTFCIALEKFSKAIYKYVNHWRDFPYPRLDANRLSDKIFMLFWYIMEKWAPLASPMQTLISIV  
KAHGPTVSLLLHREDFRGYALGQVPWLLNQYKDKEIDFHVTQSLKQILTAAVLYDIGLPRSLRRSIFINL  
LQQICRAPEPPVKENEMKASSCFLLAHSNPGELMEFFDEQVRSNNEAIRVGILTLLRLAVNADEPRLRD  
HIISIERTVKIVMGDLSTKVRNSVLLLQTMCEKSYIEAREGWPLIDYVFSQFATLNRNLEKPVKTNFHE  
NEKEEESVRETSLEVLTLDPLVIGMPQVLWPRILTFVVPAYEAELEPLFSIIRILIMAEKKQHSAGE  
STALVVSTGAVKLPSPQQLLARLLVISMPASLGELRGAGAILLKILPEIHPKLVDLWKTRPELLQPL  
EGKNISTVLWETMLLQLLKESLWKISDVAWTIQLTQDFKQMGSYNNSTEKKFLWKALGTTLACCQDSD  
FVNSQIKEFLTAPNQLGDQRGITSILGYCAENHLDIVLVKLTQFQNEKFFMNRCKSLFSGKSLTKTD  
VMVIYGAVALHAPKKQLLSRLNQDIISQVLSLHGQCSQVLGMSVMNKDMDLQMSFTRSITEIGIAVQDAE  
DQGFQFSYKEMLIGYMLDFIRDEPLDSLAPIRWKALIAIRYLSKLKQSLSLQDHLNILEENIRRLPLP  
PLENLKSEGQTDKDEKHIQFLYERSMDALGKLLKTMWDNVNAEDCQEMFNLLQMWLVSQKEWERERAFQ  
ITAKVLTNDIEAPENFKIGSLLGLLAPHSCDTLPTIRQAAASSTIGLFYIKGIHLEVERLQGLQEGLES  
DVQVQIKISSKIAKIVSKFIPNEEILMFLEEMDGLLESLNPTCTKACGIWMITVLKQQALEDQLEIL  
GTIYHMPVLRQKEESFQFILEAISQIASFHMDTVVNNLLQKPLPFDRDRTLWKALAEKPASSGKLLQA  
LIDKLETELEDDIARVEAISVACAMYEVISMGTSVTGLYPELFTLLKLVSCTLGQKMLTCPWSHRRHVM  
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LDIMEQLLSSLTSSSENYRITGAFFSELMKEPILWKHGNLRNVLILMDQSAWDSNATLRQMAIRGLGNT  
ASGAPHKVKKKHQLMLESIRGLYHLARTEVVCESLKKKILELLTDRDVSFYFKEIVLQTRTFEDED  
DDVRLTAIFLFEDLAPLTGRRWKIFFAEIEIKKSLISFLLHLWDPNPKIGVACRDVLMVCIPFLGLQELYG  
VLDRLLDQDLPRARDFYRQFCVKLAKKNQEIWLHHSFTFTSTWEVIRSAVKLTDAVVLNLTQYV  
ELLDREQLTTRLQALRQDPCISVQRAAEALQTLLRRCKETSIP

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:

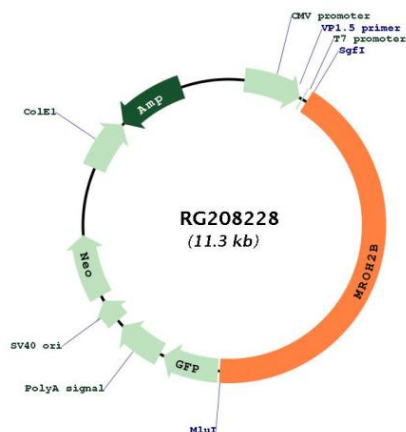


ACCN: NM\_173489

ORF Size: 4755 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. <a href="#">More info</a>                                                                      |
| 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: | <ol style="list-style-type: none"> <li>1. Centrifuge at 5,000xg for 5min.</li> <li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>3. Close the tube and incubate for 10 minutes at room temperature.</li> <li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>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.</li> </ol> |
| RefSeq:                | <a href="#">NM_173489.5</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| RefSeq Size:           | 5307 bp                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| RefSeq ORF:            | 4758 bp                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Locus ID:              | 133558                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| UniProt ID:            | <a href="#">Q7Z745</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Cytogenetics:          | 5p13.1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Gene Summary:          | May play a role in the process of sperm capacitation.[UniProtKB/Swiss-Prot Function]                                                                                                                                                                                                                                                                                                                                                                                                                                    |

## Product images:



Circular map for RG208228