

Product datasheet for RG201040

9620 Medical Center Drive, Ste 200 Rockville, MD 20850, US Phone: +1-888-267-4436 https://www.origene.com techsupport@origene.com EU: info-de@origene.com CN: techsupport@origene.cn

OriGene Technologies, Inc.

Hsp22 (HSPB8) (NM_014365) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids

Product Name: Hsp22 (HSPB8) (NM_014365) Human Tagged ORF Clone

Tag: TurboGFP

Symbol: Hsp22

Synonyms: CMT2L; DHMN2; E2IG1; H11; HMN2; HMN2A; HSP22

Mammalian Cell Neomycin

Selection:

Vector: pCMV6-AC-GFP (PS100010)

E. coli Selection: Ampicillin (100 ug/mL)

ORF Nucleotide >RG201040 representing NM_014365

Sequence: Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC

GCCGCGATCGCC

ATGGCTGACGGTCAGATGCCCTTCTCCTGCCACTACCCAAGCCGCCTGCGCCGAGACCCCTTCCGGGACT
CTCCCCTCTCTCTCCTCGCCTGCTGGATGATGGCTTTGGCATGGACCCCTTCCCAGACGACTTGACAGCCTC
TTGGCCCGACTGGGCTCTGCCTCGTCTCCTCCTCCGCCTGGCCAGGCACCCTAAGGTCGGGCATGGTGCCC
CGGGGCCCCACTGCCACCGCCAGGTTTGGGGTGCCTGCCGAGGGCAGGACCCCCCACCCTTCCCTGGGG
AGCCCTGGAAAGTGTGTGTGAATGTGCACAGCTTCAAGCCAGAGAGTTGATGGTGAAGACCAAAGATGG
ATACGTGGAGGTGTCTGGCAAACATGAAGAGAAAACAGCAAGAAGGTGGCATTGTTTCTAAGAACTTCACA
AAGAAAATCCAGCTTCCTGCAGAGGTGGATCCTGTGACAGTATTTGCCTCACTTTCCCCAGAGGGTCTGC
TGATCATCGAAGCTCCCCAGGTCCCTTCCTTACTCAACATTTGGAGAGAGCAGTTTCAACAACGAGCTTCC

CCAGGACAGCCAGGAAGTCACCTGTACC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG201040 representing NM_014365

Red=Cloning site Green=Tags(s)

MADGQMPFSCHYPSRLRRDPFRDSPLSSRLLDDGFGMDPFPDDLTASWPDWALPRLSSAWPGTLRSGMVPRGPTATARFGVPAEGRTPPPFPGEPWKVCVNVHSFKPEELMVKTKDGYVEVSGKHEEKQQEGGIVSKNFT

KKIQLPAEVDPVTVFASLSPEGLLIIEAPQVPPYSTFGESSFNNELPQDSQEVTCT

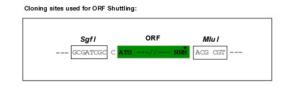
TRTRPLE - GFP Tag - V

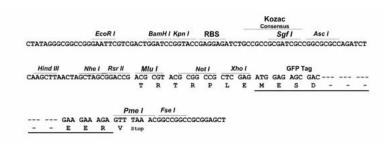
Restriction Sites: Sgfl-Mlul





Cloning Scheme:





ACCN: NM_014365

ORF Size: 588 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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with

0.22um filter is required.

RefSeq: NM 014365.3

RefSeq Size: 2056 bp
RefSeq ORF: 591 bp
Locus ID: 26353



UniProt ID:Q9UJY1Cytogenetics:12q24.23Domains:HSP20

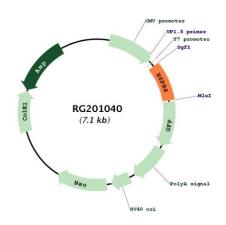
Protein Families: Druggable Genome, Protein Kinase

Gene Summary: The protein encoded by this gene belongs to the superfamily of small heat-shock proteins

containing a conservative alpha-crystallin domain at the C-terminal part of the molecule. The expression of this gene in induced by estrogen in estrogen receptor-positive breast cancer cells, and this protein also functions as a chaperone in association with Bag3, a stimulator of macroautophagy. Thus, this gene appears to be involved in regulation of cell proliferation, apoptosis, and carcinogenesis, and mutations in this gene have been associated with different neuromuscular diseases, including Charcot-Marie-Tooth disease. [provided by

RefSeq, Jul 2008]

Product images:



Circular map for RG201040