

Product datasheet for **SC216266**

GRP78 (HSPA5) (NM_005347) Human 3' UTR Clone

Product data:

Product Type:	3' UTR Clones
Product Name:	GRP78 (HSPA5) (NM_005347) Human 3' UTR Clone
Symbol:	GRP78
Synonyms:	BIP; GRP78; HEL-S-89n
Mammalian Cell Selection:	Neomycin
Vector:	pMirTarget (PS100062)
ACCN:	NM_005347
Insert Size:	1754 bp



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Insert Sequence: >SC216266 3' UTR clone of NM_005347
 The sequence shown below is from the reference sequence of NM_005347. The complete sequence of this clone may contain minor differences, such as SNPs. **Red**=Cloning site
Blue=Stop Codon

CAATTGGCAGAGCTCAGAATTCAA**GCGATCGC**

CTGGTGAAGAGGATACAGCAGAAAAAGATGAGTTG**TAG**ACACTGATCTGCTAGTGCTGTAATATTGTAAA
 TACTGGACTCAGGAACCTTTTGTAGGAAAAATTGAAAGAACTTAAGTCTCGAATGTAATTGGAATCTTC
 ACCTCAGAGTGGAGTTGAACTGCTATAGCCTAAGCGGCTGTTACTGCTTTTCATTAGCAGTTGCTCAC
 ATGTCTTTGGTGGGGGGGAGAAGAAGAAATTGGCCATCTTAAAAAGCGGGTAAAAACCTGGGTTAGGGT
 GTGTGTTACCTTCAAATGTTCTATTTAACTGGTCACTGTCATCTGGTGTAGGAAGTTTTTTCTA
 CCATAAGTGACACCAATAAATGTTTGTATTTACTGGTCTAATGTTTGTGAGAAGCTTCTAATTAGAT
 CAATTACTTATTTAGGAAATTAAGACTAGATACTCGTGTGGGGTGAGGGGAGGAGTATTTGGTAT
 GTTGGGATAAGGAAACACTTCTATTTAATGCTTCCAGGGATTTTTTTTTTTTTTTTAAACCTCCTGGGC
 CCAAGTGATCCTTCCACCTCAGTCTCCAGCTAATTGAGACCACAGGCTTGTACCACCATGCTCGGCTT
 TTGCATTAATCTAAGAAAAGGGGAGAGAAGTTAATCCACATCTTTACTCAGGCAAGGGGCATTTACAGT
 GCCCAAGAGTGGGTTTTCTTGAACATACTTGGTTTCCTATTTCCCTTATCTTTCTAAAACCTGCCTTC
 TGGTGGCTTTTTTAAATTAATACTAATGATGCTTTTATAGCTGCTGGATTCTCTGAGAAATGATGGG
 GAGTGAGTGATCACTGGTATTAACCTTTATACACTTGGATTTTCAATTTGAACTTTAGGATGTAAGGTATA
 TTGTGAACCTAGCTGTGTCAGAATCTCCATCCCTGAAATTTCTCATTAGTGGTACTGGGGTGGGATCTT
 GGATGGTGACATTGAACTACACTAAATCCCCTCACTATGAATGGGTTGTTAAAGGCAATGGTTGTGTC
 AAAACTGGTTTAGGATTACTTAGATTGTTCCTGAAGAAAAGAGTCCAGGTAATGGTATGATCAATAA
 AGGACAGGCTGGTGCTAACATAAAATCCAATATTGTAATCCTAGCACTTTGGGAGGCAAGGCGGGTGA
 TCACAAGGTCAAGAGATAGAGACCATCTTTGCCAATGGTGAACCTCCATCTCTACTGAAAATACAAAA
 ATTAGCTGGGCGTGGTAGTGCAAGCTGAAGGCTGAGGCAGGAGAATCACTCGAACCCGGGAGGCAGAGGT
 TGCAGTGAGCCGAGATCACACCACTGTACTCCAGCCCGGCACTCCAGCCTGGCGACAAGAGTGAGACTCC
 ACCTCAAAAAAAAAAAAAAGAATCCAATACTGCCCAAGGATAGGTATTTTATAGATGGGCAACTGGCTGA
 AAGTTAATTCTCTAGGGCTAGTAGAACTGGATCCCAACCAAACTCTTAATTAGACCTAGGCCTCAGC
 TGCAGTCCCGAAAAGCATTGGGCAGACCCTGAGCAGAATACTGGTCTCAGGCCAAGCCCAATACAGCC
 ATTAAGATGACCTACAGTGCTGTGACCTGGGCAATAGGGTTAAATGGTAGTTAGCAACTAGGGCTA
 GTCTTCCCTTACCTCAAAGGCTCTCACTACCGTGGACCACCTAGTCTGTAACCTTTTCTGAGGAGCTGTT
 ACTG

ACGCGTAAGCGGCCGCGGCATCTAGATTCAAGAAAATGACCG

Restriction Sites: SgfI-MluI

OTI Disclaimer: Our molecular clone sequence data has been matched to the sequence identifier above as a point of reference. Note that the complete sequence of this clone is largely the same as the reference sequence but may contain minor differences, e.g., single nucleotide polymorphisms (SNPs).

Components: The cDNA clone is shipped in a 2-D bar-coded Matrix tube as 10 ug dried plasmid DNA. The package also includes 100 pmols of both the corresponding 5' and 3' vector primers in separate vials.

RefSeq: [NM_005347.3](#)

Summary:

The protein encoded by this gene is a member of the heat shock protein 70 (HSP70) family. This protein localizes to the lumen of the endoplasmic reticulum (ER) where it operates as a typical HSP70 chaperone involved in the folding and assembly of proteins in the ER and is a master regulator of ER homeostasis. During cellular stress, as during viral infection or tumorigenesis, this protein interacts with the transmembrane stress sensor proteins PERK (protein kinase R-like endoplasmic reticulum kinase), IRE1 (inositol-requiring kinase 1), and ATF6 (activating transcription factor 6) where it acts as a repressor of the unfolded protein response (UPR) and also plays a role in cellular apoptosis and senescence. Elevated expression and atypical translocation of this protein to the cell surface has been reported in viral infections and some types of cancer cells. At the cell surface this protein may facilitate viral attachment and entry to host cells. This gene is a therapeutic target for the treatment of coronavirus diseases and chemoresistant cancers. [provided by RefSeq, Jul 2020]

Locus ID:

3309