

Product datasheet for **RC208675**

BYSL (NM_004053) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	BYSL (NM_004053) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	BYSL
Synonyms:	BYSTIN; Enp1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RC208675 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGCCAAATTC AAGCGGCCCGTGGGGTGGGGGT CAGAAAAACATGCGCCCTGGCCGATCAGATCC
 TGGCTGGGAATGCGGTGCGGGCGGGGTCCGGGAGAAGCGCGGGTCCGGGACAGGAGAAGCGGAGGA
 AGAGTATGTTGGGCCCGGCTGAGCCGACGGATTTTGCAGCAAGCACGGCAGCAACAGGAGAACTCGAG
 GCCGAGCATGGGACTGGGGACAAGCCCGCGCGCGGGAAACGCACCACGCGGTGGTCCAAGAATGC
 CTCAGGATGGATCAGATGACGAGGACGAGGAGTGGCCACCCTGGAGAAGGCTGCCACAATGACAGCAGC
 GGGCCATCATGCAGAGGTGTTGTGGACCCTGAGGATGAGCGTCCATAGAGATGTTTATGAACAAGAAC
 CCTCTGCCAGGCGACCCTGGCTGACATCATCATGGAGAAGCTGACTGAGAAGCAGACAGAGGTTGAGA
 CAGTCATGTCAGAGGTGTCGGGTTCCCTATGCCCCAGCTGGACCCCGGGTCTAGAAGGTACAGGGG
 GGTCGGGAGGTATTATCTAAGTACCGCAGTGGAAAACGCCAAGGCATTTAAGATCATCCCTGCACTC
 TCCAACGGGAGCAAATCCTCTACGTACAGAGCCGGAGGCTGGACTGCAGCTGCCATGTACCAGGCCA
 CCAGGATTTTGCCTCTAACCTGAAGGAACGCATGGCCAGCGCTTCTACAACCTTGTCTGCTCCCTCG
 AGTACGAGATGACGTTGCTGAATACAAACGACTCAACTTCCATCTCTACATGGCTCTCAAGAAGGCCCTT
 TTCAAACCTGGAGCCTGGTTCAAAGGGATCCTGATTCCACTGTGCGAGTCTGGCACTTGTACCCTCCGGG
 AAGCCATCATTGTGGGTAGCATCATACCAAGTCTCCATCCCTGTGTTGCACTCCAGTGGCCCATGCT
 GAAAATGCTGAGATGGAATACAGCGGTGCCAACAGCATCTTCTGCGACTGCTGCTGGATAAGAAGTAT
 GCACTGCCTTACCGGGTCTGGATGCCCTAGTCTTCCACTTCTGGGGTCCGGACAGAGAAGCGTGAAC
 TGCTGTGCTGTGGCACCAGTGCCTCCTGACTTTGGTCCAGCGCTACAAGGCCGACTTGGCCACAGACCA
 GAAAGAGGCCCTCTAGAACTGCTCCGGCTGCAGCCCATCCACAGCTATCGCCCGAAATCAGGCGTGAG
 CTTCAGAGTGCAGTCCCGCGATGTGGAAGATGTTCCCATCACGTGGAG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC208675 protein sequence
 Red=Cloning site Green=Tags(s)

MPKFKAARGVGGQEKHAPLADQILAGNAVRAVREKRRGRGTGEAE EEEYVGPRLSRRILQQARQQQEELE
 AEHGTGDKPAAPRERTTRLGPRMPQDGSDEDEEWPTLEKAATMTAAGHHAEEVVDPEDERAIEFMNKN
 PPARRTLADIIMEKLTEKQTEVETVMSEVSGFPMPQLDPRVLEVYRGVREVL SKYRSGKLPKAFKIIPAL
 SNWEQILYVTEPEAWTAAAMYQATRIFASNLKERMAQRFYNLVLPRVRDDVAEYKRLNFHLYMALKKAL
 FKPGAWFKGIL IPLCESGTCTLREAIIVGSIITKCSIPVLHSSAAMLKIAEMEYSGANSIFLRLLLDKKY
 ALPYRVLDALVFHFLGFRTEKRELPVLWHQCLLTLVQRYKADLATDQKEALLELLRLQPHPQLSPEIRRE
 LQSAVPRDVEDVPITVE

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mk6147_e05.zip

Restriction Sites:

SgfI-MluI

Cloning Scheme:


ACCN: NM_004053

ORF Size: 1311 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.

RefSeq: [NM_004053.4](#)

RefSeq Size: 2005 bp

RefSeq ORF: 1314 bp

Locus ID: 705

UniProt ID: [Q13895](#)

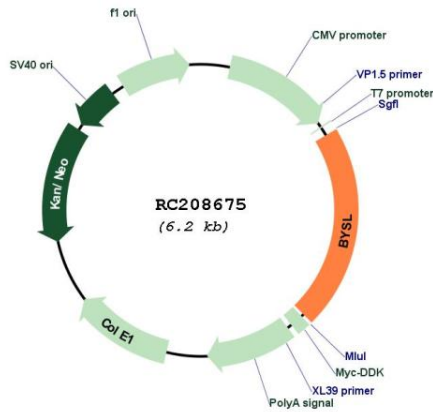
Cytogenetics: 6p21.1

Protein Families: Stem cell - Pluripotency

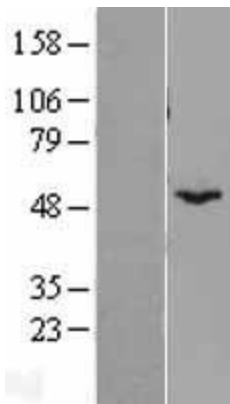
MW: 49.6 kDa

Gene Summary: Bystin is expressed as a 2-kb major transcript and a 3.6-kb minor transcript in SNG-M cells and in human trophoblastic teratocarcinoma HT-H cells. Protein binding assays determined that bystin binds directly to trophinin and tastin, and that binding is enhanced when cytokeratins 8 and 18 are present. Immunocytochemistry of HT-H cells showed that bystin colocalizes with trophinin, tastin, and the cytokeratins, suggesting that these molecules form a complex in trophoblast cells at the time of implantation. Using immunohistochemistry it was determined that trophinin and bystin are found in the placenta from the sixth week of pregnancy. Both proteins were localized in the cytoplasm of the syncytiotrophoblast in the chorionic villi and in endometrial decidual cells at the uteroplacental interface. After week 10, the levels of trophinin, tastin, and bystin decreased and then disappeared from placental villi. [provided by RefSeq, Jul 2008]

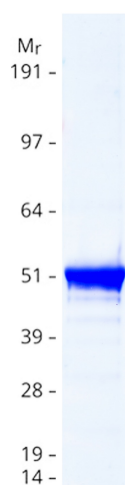
Product images:



Circular map for RC208675



Western blot validation of overexpression lysate (Cat# [LY401313]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC208675 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified BYSL protein (Cat# [TP308675]). The protein was produced from HEK293T cells transfected with BYSL cDNA clone (Cat# RC208675) using MegaTran 2.0 (Cat# [TT210002]).