

## Product datasheet for SC117600

### BYSL (NM\_004053) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	BYSL (NM_004053) Human Untagged Clone
Tag:	Tag Free
Symbol:	BYSL
Synonyms:	BYSTIN; Enp1
Mammalian Cell Selection:	None
Vector:	<u><a href="#">pCMV6-XL5</a></u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC117600 sequence for NM_004053 edited (data generated by NextGen Sequencing)

```

ATGCCCAAATTC AAGCGGCCCGTGGGGTGGGGGTCAGGAAAAACATGCGCCCTGGCC
GATCAGATCCTGGCTGGGAATGCGGTGCGGGCGGGGTCCGGGAGAAGCGCGGGGTGCG
GGGACAGGAGAAGCGGAGGAAGAGTATGTGGGGCCCCGGCTGAGCCGACGGATTTTGACG
CAAGCACGGCAGCAACAGGAGGAAGTCTGAGGCGGAGCATGGGACTGGGACAAGCCCGCG
GCGCCGCGGGAACGCACCACGCGGCTGGGTCCAAGAATGCCTCAGGATGGATCAGATGAC
GAGGACAAGGAGTGGCCACCCTGGAGAAGGCTGCCACAATGACAGCAGCGGGCCATCAT
GCAGAGGTGGTTGTGGACCCTGAGGATGAGCGTGCCATAGAGATGTTTCATGAACAAGAAC
CCTCCTGCCAGGCGACCCTGGTGACATCATCATGGAGAAGCTGACTGAGAAGCAGACA
GAGGTTGAGACAGTCATGTCAGAGGTGTCGGGCTTCCCTATGCCCCAGCTGGACCCCGG
GTCTTAGAAGTGTACAGGGGGTCCGGGAGGTATTATCTAAGTACCGCAGTGAAAACTG
CCCAAGGCATTTAAGATCATCCCTGCACTCTCCAAGTGGGAGCAAATCCTCTACGTCACA
GAGCCGGAGGCCTGGACTGCAGCTGCCATGTACCAGGCCACCAGGATTTTGCCTCTAAC
CTGAAGGAACGCATGGCCAGCGCTTCTACAACCTTGCTCCTCCCTCGAGTACGAGAT
GACGTTGCTGAATACAAACGACTCAACTCCATCTCTACATGGCTCTCAAGAAGGCCCTT
TTCAAACCTGGAGCCTGGTTCAAAGGGATCCTGATTCCACTGTGCGAGTCTGGCACTTGT
ACCTCCGGGAAGCCATCATTGTGGGTAGCATCATCACCAGTGTCCATCCCTGTGTTG
CACTCCAGTGCGGCCATGCTGAAAATTGCTGAGATGGAATACAGCGGTGCCAACAGCATC
TTCTCGGACTGCTGCTGGATAAGAAGTATGCACTGCCTTACCGGGTGTGGATGCCCTA
GTCTTCCACTTCTGGGTTCCCGACAGAGAAGCGTGAAGTGCCTGTGCTGTGGCACCAG
TGCTCCTGACTTTGGTCCAGCGCTACAAGGCCGACTTGCCACAGACCAGAAAGAGGCC
CTCTTAGAACTGCTCCGGCTGCAGCCCCATCCACAGCTATCGCCCGAAATCAGGCGTGAG
CTTCAGAGTGCAGTCTCCCGGATGTGGAAGATGTTCCCATCACCGTGGAGTGA

```

Clone variation with respect to NM\_004053.3  
307 g=>a;1276 c=>t



[View online »](#)

<b>5' Read Nucleotide Sequence:</b>	<p>&gt;OriGene 5' read for NM_004053 unedited</p> <pre>TTTTGTATACGACTACTATAGGCGGCCGCGAATTCGGCACGAGGCACGTGCGATCCTTCC CGGCAACTTTTTTCGAGAAAAATGCCCAAATTC AAGGCGGCCCGTGGGGTGGGGGGTCAGG AAAAACATGCGCCCTGGCCGATCAGATCCTGGCTGGGAATGCGGTGCGGGCGGGGGTCC GGGAGAAGCGCGGGGTGCGGGGACAGGAGAAGCGGAGGAAGAGTATGTGGGGCCCCGGC TGAGCCGACGGATTTTGCAGCAAGCACGGCAGCAACAGGAGGAACTCGAGGCCGAGCATG GGACTGGGGACAAGCCCCGCGCGCGGGAACGCACCACGCGGTGGGTCCAAGAAATGC CTCAGGATGGATCAGATGACGAGGACAAGGAGTGGCCACCCTGGAGAAGGCTGCCACAA TGACAGCAGCGGGCCATCATGCAGAGGTGGTTGTGGACCCTGAGGATGAGCGTGCCATAG AGATGTTTCATGAACAAGAACCCTCCTGCCAGGCGACCCTGGCTGACATCATCATGGAGA AGCTGACTGAGAAGCAGACAGAGTTGAGACAGTCATGTCAGAGGTGTCGGGCTTCCCTA TGCCCCAGCTGGACCCCCGGTCTAGAAAGTGTACAGGGGGTCCGGGAGGTATTATCTA AGTACCGCAGTGGAAAAC TGCCAAGGCATTTAAGATCATCCCTGCACTCTNNACTGGG AGCANATCCTCTACGTACAGAGCCGGGAGCCTGGACTGCAGCTGNCATGTACCANGCCA CCCAGNATTTTTGCCTCTAACCTGAGGAACGCATGGNCCAGCGCTTCTACAACCTTG TN CTGCTCCCTCGAGTACGAGATGACGTTGCTGAATACCAACGACTCAACTTNCATCTCTAC ATGGCTCTCAAGAAGGCCCTTTTCAACCTGGAGCCCTGGTCANAGGGATCCTGATNCACT GTGCGAGTCTGGCACTTGTACCTNCGNNAGCATCATGTGGNTAN</pre>
<b>3' Read Nucleotide Sequence:</b>	<p>&gt;OriGene 3' read for NM_004053 unedited</p> <pre>CAATCTAAAGTCGAGTTTTTTTTTTTTTTTTTCAATAAATATCTGTCTTTGCCTTTATC CACAGTGACCTGACACAATAGCCATAGAAAAGTACTCACACCAAGCCCCAGCTGGGGACT GGGAATGTAGCATATGGTATCTCAAGTTGGCTCTCAGAACTAAACAGGGATAAAGGCCT AGAATGGAAGAGGGAACCAAGCCAGACCCTCAGTCTTCCCTGTCCTGGACTGGGAGCCACA GATGTCCCTGTGATCTGTCACTGCCCTGATCTGGGTCTTCAGCCATTAAGCTCAGTGTC ATCTTCAGTCACCAACGGGGTCTTGGTGTCTTCAAACCCCTTTGGCCAGGACAGCTG ACTGTTTTCTCACTCCACGGTGATGGGAACATCTTCCACATCGCGGGAGACTGCACTCT GAAGCTCACGCCTGATTTTCGGGCGATAGCTGTGGATGGGGCTGCAGCCGGAGCAGTTCTA AGAGGGCTCTTTCTGGTCTGTGGCCAAGTCGGCTTGTAGCGCTGGACCAAAGTCAGGA GGCACTGGTGGCCACAGCACAGGCAGTTCACGCTTCTCTGTCCGGAACCCAGGAAGTGG AGACTAGGGCATCCAGCACCCGGTAAGGCAGTGCATACTTTTTATCCAGCAGCAGTCCG AGGAAGATGCTTGTGGCACCGCTGTATTTCATCTCAGCAATTTTCAGCATGGCCGCC TGAAGTGCAACCACAGGAATGGAGCCCTCGGTGATGATGCTACCCCATGATGGCTTCCC GGAGGGTACAGGGCCAGACTGCACAGTGAATAAGATCCCTTTGACCCAGCTTCAAGTTG AAAAGGCCTTCTGAAACCCTGTAAAAATGAATTGGATCTTTGTATCACAACGTATCTCTA CTTAAGGACAGAAAGTTGAAACCGTCTGGCATGCTCTTTAGTAGAGCAAAACCGGGCT CGACATGAATGAATCAACCTCGTTTGGACAAAGATCCT</pre>
<b>Restriction Sites:</b>	NotI-NotI
<b>ACCN:</b>	NM_004053
<b>Insert Size:</b>	1790 bp
<b>OTI Disclaimer:</b>	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
<b>Components:</b>	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\\_004053.3](#), [NP\\_004044.3](#)

**RefSeq Size:** 2005 bp

**RefSeq ORF:** 1314 bp

**Locus ID:** 705

**UniProt ID:** [Q13895](#)

**Cytogenetics:** 6p21.1

**Protein Families:** Stem cell - Pluripotency

**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 trophoctoderm 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]