

## Product datasheet for **SC114049**

### **BSPRY (NM\_017688) Human Untagged Clone**

#### **Product data:**

|                           |                                                                                                   |
|---------------------------|---------------------------------------------------------------------------------------------------|
| Product Type:             | Expression Plasmids                                                                               |
| Product Name:             | BSPRY (NM_017688) Human Untagged Clone                                                            |
| Tag:                      | Tag Free                                                                                          |
| Symbol:                   | BSPRY                                                                                             |
| Mammalian Cell Selection: | None                                                                                              |
| Vector:                   | <u>pCMV6-XL5</u>                                                                                  |
| E. coli Selection:        | Ampicillin (100 ug/mL)                                                                            |
| Fully Sequenced ORF:      | >NCBI ORF sequence for NM_017688, the custom clone sequence may differ by one or more nucleotides |

ATGTCCGCCGAGGGCGCGGAGCCGGGGCCGGGGTCCGGGTCCGGGCCCGGGCCGGGGCCACTCTGCCCCG  
AACACGGCCAGGCTCTGAGCTGGTTCTGCGGCTCCGAGCGACGGCCCGTGTGCGCCGCTGCGCGGGGT  
GGGCGGTGCTGCCGGGGCACCGCATCCGCCGGGCGGAGGAGCGCGCCGAGGAGCTGCGGAACAAGATT  
GTGGACCAAGTGTGAGAGGCTGCAGTTACAGAGTGCTGCCATCACCAGTATGTGGCGGACGTCTGCCGG  
GGAAGAATCAAAGAGCAGTGAGCATGGCCAGTGACGAGGGAAGTGGTTATCCAGCGGTTGAGTCTGGT  
GAGGAGTCTTTGCGAGAGCGAGGAGCAGCGGTTACTGGAACAGGTGCATGGCGAAGAGGAGCGGGCCAC  
CAGAGCATCCTGACACAGCGGGTGCACTGGGCCGAGGCGCTGCAGAACTTGACACCATCCGCACTGGCC  
TGGTGGGCATGCTTACTCACCTGGATGACCTCCAGCTGATTGAGAAGGAGCAAGAGATTTTCGAGAGGAC  
CGAAGAAGCAGAGGGCATTGATCCCCAGGAGTCGGAATGTTAACTTTAATGAGAAGTGAAGTGCCTCGG  
AGCCCACTACTGACCAACTCTGGGCAACGGCGGTTCTTGGGTCTCTCAGGCACAGAGGACATACGGA  
TCGATGAGAGGACAGTCAGCCCCCTTCTGCAATTGTCAGATGATCGAAAGACCCTGACCTTCAGACCAA  
GAAGTCAAAGGCCTGTGAGATGGCCCGGAGCGCTTCGACCACTGGCCCAATGCCCTGGCTGCCACCTCC  
TTCCAGAATGGGCTCCATGCCTGGATGGTGAATGTCCAGAACAGTTGTGCTATAAGGTGGGCGTGGCTT  
CAGGCCACCTGCCCCGAAGGTTCTGGCAGTGACTGCCGTCTGGGCCACAATGCCTTCTCTGGGTCTT  
CTCTCGTATGATCAGGAGTTTCGTTTCTCACACAATGGGCAGCAGAGCCCTGGGGCTGCTGCGGGC  
CCAGCCCAGCTGGGTGTAGTGCTGGACTTCAGGTTTCAGGAGCTGCTCTTCTATGAGCCAGCCTCCGGCA  
CAGTGCTCTGTGCCATCATGTGCTCTCCCGGGGCCCTCTCCAGTCTTTGCTGTGGCCGATCAGAC  
CATTTCTATCGTCCGCTGA



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| <b>5' Read Nucleotide Sequence:</b> | <p>&gt;OriGene 5' read for NM_017688 unedited</p> <p>ATACGACTCACTATAGGGCGGCCGCAATTCGGCACGAGGGTGGAGCGCACGGGGCGGGC<br/> GCACGGCCATGTCCGCCGAGGGCGCGGAGCCGGGGCCGGGGTCCGGGTCCGGGCCGGGC<br/> CGGGGCCACTCTGCCCCGAACACGGCCAGGCTCTGAGCTGGTTCTGCGGCTCCGAGCGAC<br/> GGCCCCGTGTGCGCCGCTGCGCGGGGTTGGCGGTCGCTGCCGGGGGACCGCATCCGCC<br/> GGGCGGAGGAGCGCGCCGAGGAGCTGCGGAACAAGATTGTGGACCAGTGTGAGAGGCTGC<br/> AGTTACAGAGTGTGCCATCACCAGTATGTGGCGGACGTCTGCCGGGAAGAATCAAA<br/> GAGCAGTGAGCATGGCCAGTGCAGCGAGGAACTGGTTATCCAGCGGTTGAGTCTGGTGA<br/> GGAGTCTTTGCGAGAGCGAGGAGCAGCGTTACTGGAACAGGTGCATGGCGAAGAGGAGC<br/> GGGCCCACCAGAGCATCCTGACACAGCGGTGCACTGGGCCGAGGCGCTGCAGAACTTG<br/> ACACCATCCGCACTGGCCTGGTGGGCATGCTTACTCACCTGGATGACCTCCAGCTGATTC<br/> AGAAGGAGCAAGAGATTTTCGAGAGGACCGAAGAAGCAGAGGGCATTNNTGGATCCCCAG<br/> GAGTCGGAATGGTAACTNTAATGAGAAGTGCCTCGGAGCCCACTACTGACCCAACTC<br/> TGGGCAACGGGCGGTTCTTTGGTCTCTCTCAGGCACAGAGGACATACGGGATCGATGAG<br/> AGGACAGTCAGCCCTTTCTGTCATGTCAGATGATCGAAAGACCCTGACCTTCACACCAA<br/> AAGTCAAAGGCCTGTGCAGATGGCCGAGCGCTTCNACACTGGCCCATGCCTGGCTGCCA<br/> CTCTTNCAGATGGGCTCTGCCTGGAGGNGATGTCAAACAGTGGCTTTAAGGGGGCGCTG<br/> CTTCAGCACTGCCCCAGGGGTTTGCATGACTGCC</p>         |
| <b>3' Read Nucleotide Sequence:</b> | <p>&gt;OriGene 3' read for NM_017688 unedited</p> <p>GGTACCGTTGCAAGTGTTCACGGGGCCCCAAGGAAAGGCCCTTAACTAGCCGCACC<br/> ACTGTCTGGCTTTGAGCCATCACCCGAGGTGTGCAGGTTATGCCAAAAGGGGCCATAAAG<br/> CCCGGAAACTCATAAGCTGCTCTAAGATAATGGCCGCTCCTGCTTATCATCGGGCACA<br/> CGCTGTAGCTGAAACAGCACGGGCTACAGACACGGTACCTGAAGACATGATCCCCTGGGG<br/> CCCTGACGGCCTATGCACGACATGGGGGAGGACACAGACCCGCGGACACAGTCCCCTGG<br/> CCAACAGCAAACTTGACGCTGCTCTTGACAGCTAAAAAACTATTCACTGTATGTGCC<br/> GTGTGATGATAAAGACATAAGCACTGGATCAATGGGATGCGGAATCTATAGCCACAGGCT<br/> GGTCTGCCTGAGAAGAGAGCATGGCTGCATGTGAACATGGTGAGCAAGACGCTCAATGGC<br/> ACAGCTCCTCAAAGACCACAACATACAGCCANTGGCCTGTACACCTACATTGAGCTATA<br/> ACTCTATCCGTGCACGCACCCGCCAAACATTATAGCTTGCTTACTCTGCAGCAGTCGAC<br/> ATGCTCCATGCCACATAGCAAGCGATGACCCCTGAGAGGGGCACATGCATGGTGGATCT<br/> TGCGAGACTAACCCAGGGACTTTTAAGTTCCCCACAGGTTCCAGGACTTAAAGGAC<br/> AAGTCTCCACCCTTTTGATGCAATGACTGTAGGGGCTTCTGGGGCGGCATATATCCCAA<br/> ATGTCTTCCCAGCTGTTATTCTCTAACTCATCAGCCCTACGCAGGGTTTTATAGGGGC<br/> CCAGAAACTCCCTCTTAATAGGGGACCATGGCACCCTAAGTGGGGCACCAGGCGTTTAA<br/> CGGTTTCGCCCAATTTTAAATACTTCCGCTCTCTCACAACCCCGACTCGTCACGGCCCT<br/> ATTTTTCAAATACCAACCTTTGTTGGATATACCCCTCCCTCAAAG</p> |
| <b>Restriction Sites:</b>           | NotI-NotI                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>ACCN:</b>                        | NM_017688                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Insert Size:</b>                 | 2620 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).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |

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| <b>Reconstitution Method:</b> | <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> |
| <b>RefSeq:</b>                | <u>NM_017688.1, NP_060158.1</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>RefSeq Size:</b>           | 2354 bp                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>RefSeq ORF:</b>            | 906 bp                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Locus ID:</b>              | 54836                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>UniProt ID:</b>            | <u>Q5W0U4</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Cytogenetics:</b>          | 9q32                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Domains:</b>               | SPRY, PRY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Protein Families:</b>      | Druggable Genome                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Gene Summary:</b>          | <p>May regulate epithelial calcium transport by inhibiting TRPV5 activity.[UniProtKB/Swiss-Prot Function]</p> <p>Transcript Variant: This variant (2) uses an alternate in-frame splice site in the coding region, compared to variant 1. It encodes isoform 2 which is shorter than isoform 1.</p>                                                                                                                                                                                                                     |