

## Product datasheet for **MC229642**

### Shprh (NM\_001284354) Mouse Untagged Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Shprh (NM\_001284354) Mouse Untagged Clone  
**Tag:** Tag Free  
**Symbol:** Shprh  
**Synonyms:** 2610103K11Rik; AA450458; AU024614; BC006883; D230017O13Rik; E130018M05  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Cell Selection:** Neomycin  
**Fully Sequenced ORF:** >MC229642 representing NM\_001284354  
**Red**=Cloning site **Blue**=ORF **Orange**=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**GCGATCGCC**

ATGAGCAGCCGAAGGAAACGTGCTCCCCGATGAAGGTCGATGAAGAAAGGCAACAGCAGCTTCACTGGA  
ACATGCATGAGGACCTGAGGAGTGAGCCGCTCACCATGACGGTCGGGGAACAGGCCTGTTGAGATGCAGA  
CTCTTCTTCTGATTGCATCATCATCGATGAAGGCCCTCCTGAGAGTGCACCTTACAGAGATAAGAAGAGG  
CGTTCAGAGACTGTGAGCGTCTTAGAGGCCACCGAGGAAGAGACCCGTTTGTCTGTGACTTTGAATGTTA  
CAGTTTCTCCCTATCGTGTGGATAAATCTTGAAAGCATTCTGGGAGATTTTGCTCTTACAGCTTCTCCC  
CAAAGAGAGTTTAGTTGAACATTTTCTGAAAGGACTTTTACATTGAGTCCTTACAGAGTCAAGCAGTCAG  
TTCCTGATCTATGTTCAATCAGAATGTAAGAAATGTAGAGAAACAAGAAATGTTCTTGAAGGATCAGCCG  
GTGTTTGTAGCAAGGGAATCCGAGTGGAATCCTCCTCAGTAGTGACATGTTACAGGATTTGGCCTGGCT  
ACAGAAGAGAAGAGGAATAAACTCTACCAGAGACCAGACGGCACTCACACAATCAAGTTGGAATTTAC  
ATTTTGAAGCTGGCCTAACAAGACTAGACTTCATGAGTGATGCAGGTTCCAGAATGAAAAAGTTCAATC  
AGCTCATGAAGAGAGTGATGAAAAAGTTACATAATTTTATTCCAGATGTGCTGGAAGAAAGAGGAGGA  
GGTTTCAGAGAGCGAGCCGAGGGTCAGGATATTGATGAGCTCTACACTTTGTGAAGCAACACACCAG  
CAAGAAACACGGTCAGTCCAAGTGGACGTCCAGCACCCCTGCGTTGATTCCGGTCTGAGACCTTACCAGA  
GAGAGGCAGTCAACTGGATGCTGCAGCAAGAGCAGTTCAGAAGCGCTCCTCCTGCTGATAACTCCCTGCA  
CTTCTTATGGCGAGAAATGTTACACCTGATGGCTTGAAGCTCTACTATAATCCATATACAGGCTGCATC  
ATTCGAGATTTCCACATGCGGGTCCACAGTTGCTTGGTGAATCTTAGCAGATGAGATGGGTCTTGGA  
AGACAGTGGAGTTCTGGCTCTGATTCTGACACATACCCGACAAGACGTCAAGCAGGACGCTCTCACCT  
TCCTGAGGAAAAGTGGTAAATTTTCATCCCAACTCACTGTCCTAGAGAAAAAGTAAAAATAGAGAA  
ATCCAGGATACAGAATATGAACAAAAGAGAAAGTTCACTGCCCTCTACAGTGTGATGATCCTGACAG  
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CAGATATGATGTTGAGCGGAACCGGGTCTTCTGAAGCGGATGTTGAAATGTTTAACTTTGAAAGTCTT  
GTGAAACAGATCAAAGGCCATGGTTTCTCTGGACTTTTACACTGGGGAAGAATTACAAAGAAGATGTAT



TTGATAAAACAAAAAGCAGGCAGTAGGGAGTCCAAGGAAAATTGAGAAGGAATTGAGGAAATCAGTGAA  
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 AAGCGGGAAAAAGCCGGAGTAAGTTGAAGAAGCCTGCTTACTAACTAAAAAGGAAAGGGTCAGTCTG  
 TTCATCTGGATTCCCAAGGTGATGCTCCAGCTGCTGGAGTCTGTGCAAGTACTGATGTTTCATGTGCAGA  
 AAATACATGTGTCTCTGAAGACAAGCAAACCAAGAAGCAAAGACTGTGCTGAGTCGCCAAACCCCTGCT  
 GCCGAGGAGTTGGCACAGTCTAACACTTCAAGTCTTGTGAAACCTCTGATTACCGCTTTGAGTGATAT  
 GTGGTGAATTTGATCAAATTGGCCACAAGCCAAGAGTTCATGTCTGAAGTGCACCTGGCAGCATGC  
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 ATGGAGCCAGTATCAACAAGAGCAACTCTGATCATCTCTCCGAGCTCCATTTGCCACCAGTGGGTGGATG  
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 CTTACAGCCTCATTTTTTGGCAGAACAAGATATAGTTATCATTACCTATGATGTTCTTCTGTTCAGAACTA  
 AACTATGTCAATATCCCACATAGCAATAGTGAAGATGGCGTGCCTGAGGAACCAGAAGCGCTATATGG  
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 AACACTGGTGGATTCCGGCTTCTCTATCATTCCACTGCAAGAAAAATCCTCAGCAGCTGTACAGTTTAT  
 TGCCAAGATAATGTGGAGGTCTGCAAGAAAGATGTCATTGACCAATCCAGATTCCACCTCAGACTGAA  
 GAAATGCACTGGCTCCATTTTTCCCGGTGGAGAGGCATTTCTATCACCGCCAGCACGAGGTGTGCTGCC  
 AGGATGCCATAGTGAAGCTCAGGAAGATCTCTGACTGGGCCCTGAAGCTCAGCAGCTTGGACAGGAGAAC  
 TGTCTCTCCATCCTCTACCCACTGCTGAGGCTCCGGCAGGCCTGCTGCCATCCACAGGCTGTTCTGTTGG  
 GAATCTTGCCACTCCAGAAGAGCACCATGACAATGGAAGAGTTGCTGACATCTCTGCAGAAGAAATGTG  
 GAACGGAATGTGAAGAGGCCACCGACAAGTGTGTCCTTAAACGGCTTAGCAGGCATTACATCAT  
 TAAAGGTGAATATGCCTTGGCAGCGGAGCTCACAGAGAAGTATTACGTTCACTGAGGAGCACAAAGGA  
 AAACCTAAAACCTGATTCCTTCAAAGACTGCATGCCACACATAACTTAATGGAGCTGTTGGGAGCCAAAC  
 ACCCAGGAATACCTCCACCTTGAAGATGGCAGACTTGAAGAAGAGGCCAAGCAGCTGCCGAGAGCACTA  
 TATGAGTAAGTGTAAACACAGAAGTTGCCAAGCCAGCAAGCTTTCAGCCTGTGCAGCAGTCCATTAGG  
 GAGCTCCAAAGGAAGATTCAATTAATCTCCTTGGTGGCTGAATGTAATCCATAGAGCAATGGAATTTT  
 CTGTTGATGAGGAAGTTGTTGAGCGGTGCGAAATGAAATAAGCAGTAACTACAAGCAACAACTGACAA  
 GCTGTCTATGTCAGAGAAGTCCGTGACTGCAGAGGTCTTCAGTCTTACTTACAACACAAATGGAAGAG  
 CTCATAAAGTCCAGAAGCTGGTGAAGGAGGCTGTGAAGAAGCTGGAGAAGCCTCCATCCCGGGAGGTGA  
 TTGAGTCTGCAACAGTTTCCACCTGCGGCCAGCTAGACTCCCTCTCACTGCTGCGTCTTTTGAAGC  
 TGATGAATTGTTACAGAGTATGAATCAAAGCTATTTTTTAACACAGTCAAAGGCCAGACTGCAATCTTT  
 GAAGAAATGATAGAAGATGAAGAAGGACTGTAGATGATAGAGTACCTACCACTACCAGAGGTCTGTGGG  
 CCGTAAGTGAAGCAGGAGCGATCTATGAAAGCAATATTATCATTGCAAGATCACATAGGTTTGTGTTGA  
 ATATGTAGATGAAGGAAGTGTTCATGGATCTCTTTGAGGCAATGGAAGAAGGAATATAAGTTACTTCAT  
 GAATACTGGATGACTCTGAGAAATCGTGTATCTGCTGTTGATGAACTTGAATGGCTACAGAGCGACTAA  
 GAGTGCAGCCATCCCAAAGAGCCAAAGCCAAACCCACCCGCTCCATCACATCATTGAACCACACGAGGTTGA  
 ACAGAATCGTATAAACTGGTGAATGATAAAGCTGTTGCTACATCACAGCTTCAAGAAACTTGGACAG  
 CTTCTTTACCTAACGAATTTGGAGAAGCTCAAGATAAAACATCAGGAGGTATTAATCCAGAGCCTGTGTC  
 CAATCTGTGCTGACAGCTGGGAAAACAGTGGGCAAGTGCCTGACCTGCGGACACTGCTTCTGTAATGAATG  
 CACTTCGATTATAAATGAACAGTACAGTGTGGGTCTCATCGAAGTTCCATCAAGTGTGCTATCTGCCGC  
 CAGACCACATCACACAAAGAAGTCTCCTATGTCTTACCTCAGAGAAGGCCAAACCAAGAGGATGATATCC  
 CTGTGAAGGTTAGCCATTCTACAAAAGTGAAGCTGTGGTCAAGACTCTGATGAAAATACAACCTTAGAGA  
 TCCAGGGGCCAAAGCGCTCGTTTTCTCAACGTGGCAAGATGTATTAGATATTATTTCAAAGCTCTCAGC  
 GACAACAACATGGAATTTACACAAATCAGTCGCATTAAGACATCCAGGAGAACCCTCAGCGTTTAAAT  
 ACGATCCCACATCAATATTCTGCTGCTGCCCTGCACACAGGCTCTAATGGATTAATATCATTGAAGC  
 CACCCATGCTCCTCTGGTGGAGCCATACTGAACCCTGCCATGAGCTGCAGGCCATTGGGAGAGTGCAC  
 CGAATTGGACAGACCAAGAGTATTAGAGGCCTGAATGTTTGAAGACATACAGATACACAAGCACACATG  
 ACCACACACTAAGTACTTACTTAGTCTTACTGAGCATCTAA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

<b>Restriction Sites:</b>	Sgfl-Mlul
<b>ACCN:</b>	NM_001284354
<b>Insert Size:</b>	4941 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>OTI Annotation:</b>	Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.
<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).
<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><a href="#">NM_001284354.1</a></u> , <u><a href="#">NP_001271283.1</a></u>
<b>RefSeq Size:</b>	6832 bp
<b>RefSeq ORF:</b>	4941 bp
<b>Locus ID:</b>	268281
<b>UniProt ID:</b>	<u><a href="#">Q7TPQ3</a></u>
<b>Cytogenetics:</b>	10 A1
<b>Gene Summary:</b>	<p>E3 ubiquitin-protein ligase involved in DNA repair. Upon genotoxic stress, accepts ubiquitin from the UBE2N-UBE2V2 E2 complex and transfers it to 'Lys-164' of PCNA which had been monoubiquitinated by UBE2A/B-RAD18, promoting the formation of non-canonical poly-ubiquitin chains linked through 'Lys-63'. [UniProtKB/Swiss-Prot Function]</p> <p>Transcript Variant: This variant (3) lacks two exons and includes an alternate 3' terminal exon, compared to variant 1. It encodes isoform c which is shorter and has a distinct C-terminus, compared to isoform a.</p>