

Product datasheet for **SC315274**

GSE1 (NM_014615) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	GSE1 (NM_014615) Human Untagged Clone
Tag:	Tag Free
Symbol:	GSE1
Synonyms:	CRHSP24; KIAA0182
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>SC315274 representing NM_014615. Blue=Insert sequence Red=Cloning site Green=Tag(s)

GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCC**CGATCGCC**
ATGAAAGGCATGAGCCATGAGCCCAAGTCCCCTTCGCTAGGGATGCTTTCCACCGCGACCAAGGACCACC
GCCACCGTCAACCCCTCACCCCTCGCCGCTCAATGGCGCCCTGGTGCCAGCGGCAGCCCCGCCACC
AGCAGCGCGTGTGCGCCAGGCCGCGCCATCCTCCAGCTTTGCCGCGCGCTGCGCAAGCTCGCCAAA
CAGGCGGAGGAGCCAGAGGGTCTCACTGAGCAGCGAGTCGTCGCCCGTGTCTCTCGGCCACCAAC
CACAGTCCCCCGCCAGCACACCAAGCGCGTGGCCATGGGCCCTATCATGTCGCCCTGGGGGCCAC
AGCGTGCCAGCACCCCCCGTGGTGACCATCGCTCCAACCAAAACCGTGAATGGTGTCTGGAGGAGT
GAGAGCCGGCAGGATGCCGGCTCCAGGAGCAGCAGTGGAGGTGGGAACGCCTCATTGTGGAGCCCCCG
CTCCCTCAGGAGAAGGCAGGGGGACCAAGCCATCCCTCGCACCTGCTCAGCACCCCTACCCCTTCGGC
CTCTCCCCCAGCTCAGTTGTGAGGATTCCTCGCTTCCCGCCACTCAACCTCCAGCGGCCCGTGCACCAC
GTGGTGCCCCCAGTACCGTGACCGAGGACTACCTGAGAAGCTTCCGGCCCTACCACACCACCGACGAC
CTCCGATGTCTCACTGCCTCCCCTCGGCCTGGACCCGGCCACTGCTGCAGCCTACTACCACCCAGC
TACCTGGCCCCACACCCCTTCCCCACCCGGCCTTCAGGATGGACGACTCCTACTGCCTGTCTGCCCTG
AGGTCCCCGTTTACCCCATCCCCACCCCGGCTCCCTGCCCCCACTGCACCATCAGCGATGCACCTG
CACCTCTCTGGGTCCGCTACCTCCCGAGCTCTCCCACTCATCCCTGGCAGCGTGCACCTCGGAGCGC
ATGTCTGGCCTCAGCGCGGAGAGGCTGCAGATGGACGAGGAGCTAAGGCGGGAGAGGGAGCGCAGCGC
GAGCGCGAGCGTGAGCGTGAGGCTGACCGCGAGCGGGAGAAGGAACGTGAGCGCGAACGCGAGAAGGAG
CGCGAGCAAGAGAAGGAGCGTGAGCGTGAGAAGGAGCGCGAGCGCGAGCTGGAGCGCCAGCGGGAGCAG
CGGGCCCCGGGAGAAGGAGCTGCTGGCCGCAAGGCCCTGGAGCCAGCTTCTGCCCGTGGCCGAGCTG
CATGGGCTGCGTGCCATGCCACTGAGGAGCGGGCAAGCCCTCGGAGCAGCTGACCCCAACCCGAGCA
GAGAAGCTGAAGGATGCCGGCTGCAGGCGCCCAAGCCGTCACACCCCTTGCATCCGGTGCCCAACC
CCACACCACAGGTGCCAGCCTCATCTCAACCATGGCATTTCTCTCTGCTAGCAGCAGTGTGCC
ACAGCCCTGCTGATCCAGCGACCAATGAGGAGGAGAAGTGGCTGGCGCGCAGCGGCGGCTGCGGCAG



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GAGAAGGAGGACCGGCAGTCTCAGGTGTCCGAGTTCGCGCAGCAGGTGCTGGAGCAGCACCTGGATATG
 GGCCGGCCCCCGGTGCCGGCGGAGGCAGAGCACAGGCCGGAGAGCACCACAGGCCAGGACCAAAACCGT
 CACGAGCCAGGTGGCCGTGACCTCCGCAGCACTTTGGGGGGCCACCACCTCTGATTTTCGCCAAGCCC
 CAGCTCCATGCTGCACCCACGGCCCTCTGGAACCCCGTGTCCCTGATGGACAACACCTTGAGACGCGG
 CGGGCCGAAAGCCACTCTCTGCACAGCCACCCGGCTGCATTTGAGCCAGCCGCCAGGCAGCCGTGCCG
 CTGGTGAAGGTGGAGCGGGTCTTCTGCCCGGAGAAAGCAGAGGAGGGGCCACGGAAGCGTGAGCCTGCC
 CCTCTGGACAAGTACCAGCCACCTCCGCCGCCACCACGAGAGGGAGGGAGCCTGGAGCACCAGCCCTTC
 CTGCCCGGGCCCGGGCCCTTCTGGCTGAGCTCGAGAAGTCCACCCAGACCATCCTGGGCCAGCAGCGG
 GCCTCCCTCCACAGGCGGCCACCTTCGGGGAGCTCAGCGGACCCCTGAAGCCTGGCTCGCCCTACCGG
 CCCCCAGTGCCACGGGCCCCGACCCTGCCTACATCTATGATGAGTTCCTGCAGCAGCGCCGGAGGCTG
 GTCAGCAAGCTGGACCTGGAGGAGCGCAGGCGGGGAGGCCAGGAGAAAGGGTACTACTACGACCTC
 GATGACTCTTACGACGAGAGCGATGAGGAGGAGTTCAGGGCCACCTCCGTTGCGTGGCCGAGCAGCCG
 CCCCTCAAAGTGGACACGTCTCTGAGAAGCTAGAGTTTTTCAACTTTTTGGCTTGACCACCAACAG
 CAGAAGGAGGAATTGGTGGCCAGAAAGCGGAGGAAGCGCGGAGGATGCTGCGAGAGAGAAGCCCGTCG
 CCCCCAACAAATCAGAGCAAGCGGCAGACGCCTTACCGAGACTGGCGCTGTCTACCCGCTACAGCCCT
 GATGAGATGAACAACAGTCCCAACTTCGAAGAAAAGAAGATTCTGACCATCTTCAACCTGACCCAC
 ATCAGCGCTGAGAAGAGGAAAGACAAAGAGAGACTTGTGAAATGCTCCGTGCCATGAAGCAGAAGGCA
 CTGTGAGCAGCAGTGGCCGACTCCTTGACAACTCTCCGAGGGACAGTCTGCGCTCTCCCTGAGTGAA
 CCAGCCACGCAGCAAGCCTCTCTGGATGTGGAGAAGCCGGTTGGTGTGCTGCTTCTTGTCTGACATC
 CCAAAGGCCGCGGAGCCTGGGAAGCTGGAACAGGTCCGGCCCCAGGAGCTGTGAGAGTCCAGGAGCTA
 GCTCCTGCCAGCGGGGAGAAGGCCAGGCTGAGCGAGGCCCTGGAGGCAAAAAGAGTCTGAGCATGCTT
 CACTATATCCGGGGCGCTGCACCAAGGACATTCCTGTGCCGTGTCCACAGCACCAATGGGAAGAGC
 AAGCCGTGGGAGCCCTTTGTGGCAGAAGAGTTTGACATCAGTTCACGAGTCAGTGTGTCAGTCCACC
 CAGAAGGCCCTGCAGAAGCATAAAGGGAGCGTGGCTGTGCTGTCTGCAGAGCAGAACCACAAGTTGAC
 ACGTCCGTCCACTACAACATTCTGAGCTGCAGTCTCCAGCCGCGCCCTCCACCCAGCACAATGGG
 CAGCAGGAGCCCCCACTGCAAGGAAGGGCCCCCAACCCAGGAGTTGGACCGGGACTCGGAGGAGGAG
 GAAGAGGAGGATGATGAAGATGGAGAAGATGAGGAGGAAGTCCCCAAGCGCAAGTGGCAAGGGATCGAG
 GCCGTTTTTGAAGCTTACCAGGAACACATAGAAGAGCAAAATCTGGAGCGGCAGGTGTTACAGACACAA
 TGTAGACGACTGGAGGCCCGGCACTACAGCCTCAGCCTGACGGCAGAGCAGCTCTCCACAGCGTGGCG
 GAGTTGAGGAGCCAGAAACAGAAGATGGTCTCAGAAAGGGAGCGGCTCCAGGCAGAACTGGACCACTTA
 CGAAAGTGCCTTGCTTGCTGCAATGCACTGGCCTAGGGGCTACCTGAAGGGATATCCAGGTGA
 ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
 TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC

Restriction Sites: SgfI-MluI
ACCN: NM_014615
Insert Size: 3654 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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 TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.

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_014615.3](#)

RefSeq Size: 7490 bp

RefSeq ORF: 3654 bp

Locus ID: 23199

UniProt ID: [Q14687](#)

Cytogenetics: 16q24.1

MW: 136.2 kDa

Gene Summary: This gene encodes a proline-rich protein with coiled coil domains that may be a subunit of a BRAF35-HDAC (BHC) histone deacetylase complex. This gene may function as an oncogene in breast cancer and enhanced expression of the encoded protein has been observed in breast cancer patients. [provided by RefSeq, May 2017]
 Transcript Variant: This variant (1) encodes the longest isoform (1). Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.