

## Product datasheet for **SC124087**

### Brk (PTK6) (NM\_005975) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Brk (PTK6) (NM_005975) Human Untagged Clone
Tag:	Tag Free
Symbol:	Brk
Synonyms:	BRK
Mammalian Cell Selection:	None
Vector:	<u><a href="#">pCMV6-XL4</a></u>
E. coli Selection:	Ampicillin (100 ug/mL)



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**Fully Sequenced ORF:**

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>OriGene ORF sequence for NM_005975 edited
GCGGCCGCGAATTCGGCACGAGGTGGGCTGAGGACTTGTGGGGCCGGCTGGGCCCTCAG
GAGGAGCCGGGTGCTCTGGAGCGCCTGTGGGTGCTGGGTGTGGCTGCTTCCCGGCTGT
CATGAGGAAGTGGGACGGCCCGCTGCCACGCCAGCTCTGGGTGCTCCAGCTGGGCCAC
AGCCTGGTCTGCCGTGCGCCCGCCCATGGTGTCCCGGGACCAGGCTCACCTGGGC
CCCAAGTATGTGGGCTCTGGGACTTCAAGTCCCGGACGGACGAGGAGCTGAGCTTCCGC
GCGGGGGACGCTTCCACGTGGCCAGGAAGGAGGAGCAGTGGTGGTGGCCACGCTGCTG
GACGAGGCGGGTGGGGCGTGGCCAGGGCTATGTGCCCACTACCTGGCCGAGAGG
GAGACGGTGGAGTCGGAACCGTGGTTCTTTGGCTGCATCTCCCGCTCGGAAGCTGTGCGT
CGGCTGCAGGCCGAGGGCAACGCCACGGGCGCCTTCTGATCAGGGTCAGCGAGAAGCCG
AGTGCCGACTACGTCCTGTGCGTGGGACACGAGGCTGTGCGGCACTACAAGTCTGG
CGGCGTCCGGGGGCGGCTGCACCTGAACGAGGCGGTGCTTCTCCTCAGCTGCCCGAG
CTTGTGAACACAGGGCCAGAGCCTGTCCACGGCTGCGGCTGGCCGCGCCCTGC
CGGAAGCAGGAGCTGAGCCCTGCCCATTTGGGATGACTGGGAGAGGCCGAGGGAGGAG
TTCACGCTCTGCAGGAAGCTGGGGTCCGGCTACTTTGGGAGGTCTTCGAGGGGCTCTGG
AAAGACCGGGTCCAGGTGCCATTAAGGTGATTTCTCGAGACAACCTCCTGCACAGCAG
ATGCTGCAGTCGAGATCCAGGCCATGAAGAAGCTGCGGCACAAACACATCCTGGCGCTG
TACGCCGTGGTGTCCGTGGGGGACCCCGTGTACATCATCACGGAGCTCATGGCCAAGGGC
AGCCTGTGGAGCTGCTCCGCGACTCTGATGAGAAAGTCTGCCCGTTTCGGAGCTGCTG
GACATCGCTGGCAGGTGGCTGAGGGCATGTGTTACCTGGAGTCGCAGAAATTACATCCAC
CGGGACCTGGCCGCCAGGAACATCCTCGTGGGGAAAACACCCTTGCAAAGTTGGGGAC
TTCCGGTTAGCCAGGCTTATCAAGGAGGACGCTACCTCTCCATGACCAACAATATCCCC
TACAAGTGGACGGCCCTGAAGCGCTCTCCCGAGGCCATTACTCCACAAATCCGACGTC
TGGTCCTTTGGGATTCTCCTGCATGAGATGTTTCAGCAGGGGTGAGGTGCCCTACCCAGGC
ATGTCCAACCATGAGGCCTTCTGAGGGTGGACGCCGGCTACCGCATGCCCTGCCCTCTG
GAGTGCCCGCCAGCGTGCACAAGCTGATGCTGACATGCTGGTGCAGGGACCCCGAGCAG
AGACCCTGCTTCAAGGCCCTGCGGGAGAGGCTCTCCAGTTCACCAGCTACGAGAACCCG
ACCTGAGCTGCTGTGGAGCGGCATGGCCGGGCCCTGCTGAGGAGGGGCTGGGCAGAGG
GCCTGGACCTGGGATCAAGGCCACGCGCTTCCCTGGGGTTTACTGAGGTGATGGGTGCA
GGAAAGGTTCAAAATGTGGAGTGTCTGCGTCCAATACACGCGTGTGCTCCTCCTTAC
TCCATCGTGTGCTTGGGTCTCAGCTGCTGACACGCAGCCTGCTCTGGAGCCTGCAGA
TGAGATCCGGAGACTGACACGAAGCCAGCAGAGGTGAGAGGGGACTCTGACCACAGCCCG
CTCTCTGGCTGTCTGTCTGCAGTGCCCGGCTGAGGGTGGGAGGCAAAACACGCCTTGTTC
TGCTCTTCCCAGTTCAGCTTGGTGGGAAGAAAGTCATTTGCGTGGCTCGGGACGCTCAT
GTAAATTTGGTTTTGGTGTCAAGGGTTCTTCTCCAGGGGCAGGTGTTTTCTTCTG
TTTGTCTGTGCTTGGAGCTTGGCCTTATGACCAGTGAGAACTCTCCTCCTGGTCTCT
GCCAGCCAAAGCATCACTGCCGAGGCGCCAGCTCAGTTTCCAGTTCACGTCACACAAG
GGGCTTTCCACCTTACCTTTGTCGCTGGGGTCAGTGCTGGAAAGCGCCCTTCACT
TCCTGCGCTGAC
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<b>5' Read Nucleotide Sequence:</b>	>OriGene 5' read for NM_005975 unedited CAGTATTTTGTAAACGACTCACTATAGGGCGGCCGGAATTCGGCACGAGGTGGGCCTG AGGACTTGTGGGGCCGGCTGGGCCTCAGGAGGAGCCGGGTGCTCTGGAGCGCCTGTGG GTGCTGGGTGTGGCTGCTCCCGCCTGTCATGAGGAAGTGGGACGGCCCGCCTGCCACG CCCAGCTCTGGGTGCTCCAGCTGGGCCACAGCCTGGTCTGCCGTGCGCCCGCCGCCA TGGTGTCCCGGGACCAGGCTCACCTGGGCCCAAGTATGTGGCCTCTGGACTTCAAGT CCCGACGGACGAGGAGCTGAGCTTCCGCGCGGGGACGTCTTCCACGTGGCCAGGAAGG AGGAGCAGTGGTGGTGGCCACGCTGCTGGACGAGGCGGGTGGGCGCTGGCCAGGGCT ATGTGCCCCACAACACTACCTGGCCGAGAGGAGACGGTGGAGTCGGAACCGTGGTTCTTTG GCTGCATCTCCCGCTCGGAAGCTGTGCGTCGGCTGCAGGCCGAGGGCAACGCCACGGGCG CCTTCTGATCAGGGTCAGCGAGAAGCCGAGTGCCGACTACGTCCTGTGGTGGGGACA CGCAGGCTGTGCGGCACNTACAGATCTGGCGGCTGCCGGGGCCGGCTGCACCTGAACG AGGCGGTGCTCTCTCACCTGCCGAGCTTGTGAACTACCACAGGGCCAGAGCCTGT CCCACGGCTGCGGCTGGGCCGCGCCTGGCCGAGCACAACCTGAACCCCTGCCCAT TTGGAAGACTGGGAAAAGGCCAGGAAGATTTAACCCCTCGAGGAAACCTGGGTCCCGC CTACTTTGGGAGTTCTTCAAGGGCTTTGAAAAGACCCGGTCCGGTGGCCTTAAAGGTG AATTTTGAGAAAACCTCTGCCCCACAAAAGTGTGATTCGGAATCAGCCCAAT
<b>Restriction Sites:</b>	Please inquire
<b>ACCN:</b>	NM_005975
<b>Insert Size:</b>	3200 bp
<b>OTI Disclaimer:</b>	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 <a href="mailto:custsupport@origene.com">custsupport@origene.com</a> 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. <a href="#">More info</a>
<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>	<a href="#">NM_005975.2</a> , <a href="#">NP_005966.1</a>

RefSeq Size: 2519 bp

RefSeq ORF: 1356 bp

Locus ID: 5753

UniProt ID: [Q13882](#)

Cytogenetics: 20q13.33

Protein Families: Druggable Genome, Protein Kinase, Secreted Protein

**Gene Summary:** The protein encoded by this gene is a cytoplasmic nonreceptor protein kinase which may function as an intracellular signal transducer in epithelial tissues. Overexpression of this gene in mammary epithelial cells leads to sensitization of the cells to epidermal growth factor and results in a partially transformed phenotype. Expression of this gene has been detected at low levels in some breast tumors but not in normal breast tissue. The encoded protein has been shown to undergo autophosphorylation. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Jan 2012]

Transcript Variant: This variant (1) represents the longer transcript and encodes the longer protein (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.