

Product datasheet for **SC115690**

Mel18 (PCGF2) (NM_007144) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Mel18 (PCGF2) (NM_007144) Human Untagged Clone
Tag:	Tag Free
Symbol:	Mel18
Synonyms:	MEL-18; RNF110; TPFS; ZNF144
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for NM_007144, the custom clone sequence may differ by one or more nucleotides

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ATGCATCGGACTACACGGATCAAATCACAGAGCTGAACCCACCTCATGTGTGCCCTCTGCGGGGGT
ACTTCATCGACGCCACCACTATCGTGGAGTGCCTGCATTCTTCTGAAAACCTGCATCGTGCCTACCT
GGAGACCAACAAATACTGCCCATGTGTGACGTGCAGGTCCATAAAACCCGGCCGCTGCTGAGCATCAGG
TCTGACAAAACACTTCAAGACATTGTCTACAAATTGGTCCCTGGGCTTTTTAAAGATGAGATGAAACGGC
GGCGGGATTTCTATGCAGCGTACCCCTGACGGAGGTCCCAACGGCTCCAATGAGGACCGCGCGAGGT
CTTGGAGCAGGAGAAGGGGGCTCTGAGTGATGATGAGATTGTGAGCCTCTCCATCGAATTCTACGAAGT
GCCAGGGACCGGGACGAGAAGAAGGGCCCTGGAGAATGGGGATGGGGACAAAGAGAAAACAGGGGTGC
GCTTCTCGCATGCCAGCAGCCATGACCGTCATGCATCTTGCCAAGTTTCTCCGCAACAAGATGGATGT
GCCAGCAAGTACAAGGTGGAGTTCTGTACGAGGACGAGCCACTGAAGGAATACTACACCTCATGGAC
ATCGCCTACATCTACCCCTGGCGGCGGAACGGGCTCTCCCCCTCAAGTACCGTGTCCAGCCAGCCTGCA
AGCGGCTCACCTAGCCACGGTGCCACCCCTCCGAGGGCACCAACACCAGCGGGGCGTCCGAGTGTGA
GTCAGTCAGCGACAAGGCTCCAGCCCTGCCACCCTGCCAGCCACCTCCTCCTCCCTGCCAGCCAGCC
ACCCATCCATGGCTCTCCAGTTCATGGGCTCCAGCCACCCACCTACCTCCCCACTCCCCCTT
CGACAGCCAGTGGGGCCACCACAGCTGCCAACGGGGTAGCTTGAAGTGCCTGCAGACACCATCTCCAC
CAGCAGGGGGCGCAAGATGACTGTCAACGGCGCTCCCGTGCCCCCTTAATTGA
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5' Read Nucleotide Sequence:	<p>>OriGene 5' read for NM_007144 unedited</p> <pre>TCACAAATTTGTAATACGACTCACTTATAGGGCGGCCGGAATTCGCACGAGGCTCCCCG TCTTAACGATTTGGCGTCTCCCTCGACCACCACCTCTTTGTGCAGCAGCCCCCGGCAGA CCCTGTTCCGAGGGCAACGCTCCCCAGTCCCCCACCACCCCGAACCCCGAATCATGCATCG GACTACACGGATCAAAATCACAGAGCTGAACCCCCACCTCATGTGTGCCCTCTGCGGGGG GTACTTCATCGACGCCACCACTATCGTGGAGTGCCTGCATTCTTCTGCAAAAACCTGCAT CGTGGCGTACCTGGAGACCAACAATACTGCCCATGTGTGACGTGCAGGTCCATAAAAC CCGGCCGCTGCTGAGCATCAGGTCTGACAAAACACTTCAAGACATTGTCTACAAATTGGT CCCTGGGCTTTTTAAAGATGAGATGAAACGGCGCGGGATTTCTATGCAGCGTACCCCT GACGGAGGTCCCCAACGGCTCCAATGAGGACCGCGCGAGGTCTTGGAGCAGGAGAAGGG GGCTCTGAGTGATGATGAGATTGTGAGCCTCTCCATCGAATTCTACGAAGGTGCCAGGGA CCGGGACGAGAAGAAGGGCCCCCTGGAGAATGGGGATGGGGACAAAGAGAAAACAGGGGT GCGCTTCTCGCATGCCAGCAGCCATGACCGTCATGCATCTTGCCAAGTTTCTCCGCAA CAAGATGGATGTCCCAGCAAGTACAAGTGGAGGGTTCTGTACGAAGACGAGCCACTGA AGGAATACTACACCCTCATGGACATCGCCTACATCTACCCTGGCGGGCGAACGGGCCTC TNCCTCAAGTACGTGTNCAGCCAGCCTGCAAGCGGCTACCCTAGCCACGGTGCCAC CCCTNCGAGGGCACCCACAGCCGNGCGTCCGANTGTTGAGTCAGTCAGCGACAAGG CTCC</pre>
3' Read Nucleotide Sequence:	<p>>OriGene 3' read for NM_007144 unedited</p> <pre>GCTTATATATATATATTTATTTATAAAACCCGCCCCCCCCCCAGGTGGGAAGAGCTGGG GAAAGTGAAGAGTGGAAAAGGGCCAGAAAAGTGAAGGAGTGGAGAGGCTTGGCTGGA AGAAGGGAGAGGGTCCCTGGCCTCAAGTTAAGGGGGGACGGGAGCGCCGTTGACAGTCA TCTTGCGCCCCCTGCTGGTGGAGGATGGTGTCTGCAGGCAGTTCAAGCTACCCCGTTGG CAGCTGTGGTGGCCCCACTGGCTGTGCAAGGGGGAGTGGGGGAGGTAGGGTGGGTGGCTG GAGGCCATGGGAACTGGGAGAGCCATGGGATGGGGTGGCTGGGCTGGGCAGGGAGGAGG ACGTGGCTGGCAGGGTGGCAGGGCTGGGAGCCTTGTGCTGACTGACTTACACTCGGACG CCCCGCTGGTGTGGTGCCTCGGAGGGGGTGGGCACCGTGGCTAGGGTGGAGCCGCTTGC AGGCTGGCTGGACACGGTCTCGAGGGGGAGAGGCCCGTCCGCCCCAGGGGTACATTN ACGCCATGTCCATGATGGCGTCGCATTCCTTTCAGTGGCTCGTCCCTACAGAACCTCCA CCTTGCACTTGGCGGCACACCCTCTTTGTTGCGGGAACTCGTCAAGACGCATTACTGT CATGGCTGCTGCGCATCTCAGGAAACGTACCCCTGTTCTTTTTTTGTACCCATCCCCATT TCTCAAGGGGGCTCTTTTTTCCGTCGCGGCCTTGACCCCTCTCCTCAAATCCGCTCGA AAGCTTCCACCTTCTACTCCCCAAAACCCCTTCTTTTCGTTTATACCCCCCCCCGT CTCTATTTTATTCTTTGGCACCCACCATGCGCTCCCTTCTCAAATCTCCCCTTCTCC TCCTTCTGTTAAACCCCGCCATTNTGTGCCATGTTTCAGATTTCTCNATACTCTTTT TTCCGCTCCTTTTTCTGCCTATCGTCACTAGATCCTTG</pre>
Restriction Sites:	NotI-NotI
ACCN:	NM_007144
Insert Size:	1440 bp
OTI Disclaimer:	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).
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_007144.2](#), [NP_009075.1](#)

RefSeq Size: 2622 bp

RefSeq ORF: 1035 bp

Locus ID: 7703

UniProt ID: [P35227](#)

Cytogenetics: 17q12

Domains: RING

Protein Families: Transcription Factors

Gene Summary: The protein encoded by this gene contains a RING finger motif and is similar to the polycomb group (PcG) gene products. PcG gene products form complexes via protein-protein interaction and maintain the transcription repression of genes involved in embryogenesis, cell cycles, and tumorigenesis. This protein was shown to act as a negative regulator of transcription and has tumor suppressor activity. The expression of this gene was detected in various tumor cells, but is limited in neural organs in normal tissues. Knockout studies in mice suggested that this protein may negatively regulate the expression of different cytokines, chemokines, and chemokine receptors, and thus plays an important role in lymphocyte differentiation and migration, as well as in immune responses. [provided by RefSeq, Jul 2008]