Drosophila Negative Control Primer Set 3

Catalog No: 71038

Format: 96 rxns

Background: The Drosophila Negative Control Primer Set 3 amplifies a 65 base pair fragment from 13 kb 3´ of the start site of *D. melanogaster* split ends (Spen) transcript on chromosome 2L. It can be used as a negative control for spike-in experiments with H3K27me3 and EZH2.

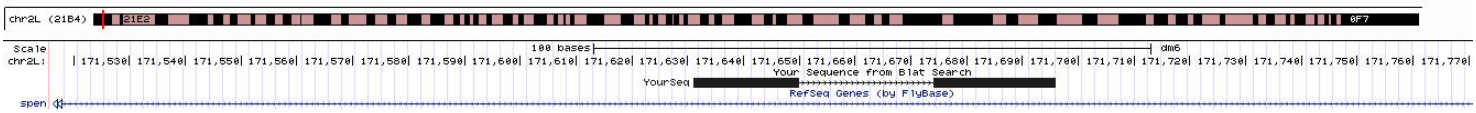
Contents: This control primer set contains both forward and reverse primers in 400 µl of nuclease-free distilled water. The final concentration for each primer is 2.5 µM.

Application Notes: Amplification should be carried out in a total volume of 20 µl, using the DNA template, 4 µl of the primer set, and 10 µl SYBR Green 2X qPCR Master mix with an annealing temperature of 58°C. For genomic DNA amplification, 12.5 ng of DNA was used as template.

Quality Control: This primer set was used to produce a single PCR product from genomic DNA using qPCR to generate an amplification curve with a Ct of fewer than 28 cycles. After amplification, melt curve analysis was performed to confirm the production of a single PCR amplicon.

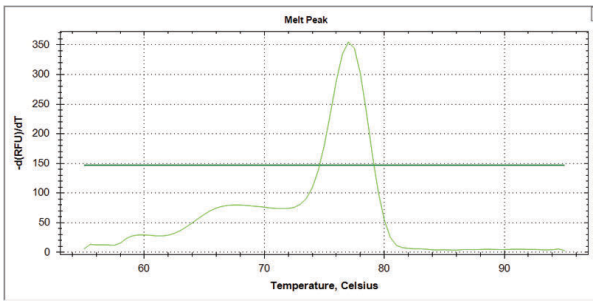
Storage and Guarantee: The primers are shipped at room temperature and should be stored at -20°C upon receipt to ensure stability. This product is guaranteed for 6 months from date of receipt.

This product is for research use only and is not for use in diagnostic procedures.



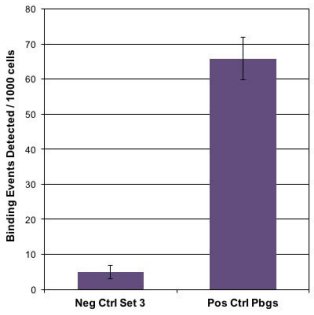
Genomic Location

Image representing the relative location of the primer set amplicon within the genome, as generated by the UCSC Genome Browser.



Melt Curve

PCR product melt curve for qPCR reaction using 12.5 ng of total DNA as template. The single peak corresponds to a single amplicon.



ChIP qPCR Data

ChIP was performed on chromatin from *D. melanogaster* adults using an antibody to H3K27me3 and subjected to qPCR with the indicated primer set (X-axis). Data presented are normalized binding events per 1000 cells.