

Supplementary Appendix

This appendix has been provided by the authors to give readers additional information about their work.

Supplement to: Ladroue C, Carcenac R, Leporrier M, et al. *PHD2* mutation and congenital erythrocytosis with paraganglioma. *N Engl J Med* 2008;359:2685-92.

PHD2 (EGLN1) primers and PCR conditions

Designed using UCSC «Exon Primer»:
<http://genome.ucsc.edu/cgi-bin/hgGateway>

With cDNA sequence: NM_022051 and genomic sequence: hg18_chr1:229567053-229628413_rev

Exon 1 (3 fragments)

Exon 1a

LEFT PRIMER GCAGTAACGGCCCCTATCTC
RIGHT PRIMER GGCCTTTACTTTTCCCTTGG
PRODUCT SIZE: 453 bp

Exon 1b

LEFT PRIMER GGACTGGAAGAAGCACAAAGC
RIGHT PRIMER ATCTGCTGTCCGGTCTCCTT
PRODUCT SIZE: 519 bp

Exon 1c

LEFT PRIMER CAGGAGAAGGCGAACCTGTA
RIGHT PRIMER GAGGAATGCTGCTTCTCAGC
PRODUCT SIZE: 520 bp

Exon 2

LEFT PRIMER TCAGAGATCTGATTTATTAGCTGTTC
RIGHT PRIMER GAAGTATGAAACTTAATGCTTTTGAG
PRODUCT SIZE: 272 bp

Exon 3

LEFT PRIMER CCCCTAAATTTAATCTTGTAGCAT
RIGHT PRIMER CAGATTCCTCCTGTCCCTACC
PRODUCT SIZE: 259 bp

Exon 4

LEFT PRIMER CCATTGCAGCAAAAATACCAC
RIGHT PRIMER CATCACCTGATTGCAGGGTA
PRODUCT SIZE: 197 bp

Exon 5

LEFT PRIMER TGAATGCAGTAGCAGAAGC
RIGHT PRIMER TTTGATGCAACACAAAAGTTG
PRODUCT SIZE: 284 bp

Duplex PCR with HotStarTaq (Qiagen) on ABI9700 (Applied Biosystems):

PHD2-1b + PHD2-3: Tm=54°C

PHD2-1c + PHD2-2: Tm=54°C

PHD2-5 + PHD2-4: Tm=54°C

PHD2-1a: Tm=58°C

2B

