

Genotyping Cdh5-PAC-CreERT2

JDW 5/13

MGI: 3848982

Reference: Ephrin-B2 controls VEGF-induced angiogenesis and lymphangiogenesis.
Wang Y; Nakayama M; Pitulescu ME; Schmidt TS; Bochenek ML; Sakakibara A; Adams S;
Davy A; Deutsch U; Luthi U; Barberis A; Benjamin LE; Makinen T; Nobes CD; Adams RH

Note: Although first mentioned in a previous reference (Sorensen I *et al.*, "DLL1-mediated Notch activation regulates endothelial identity in mouse fetal arteries." Blood 2009 May 28;113(22):5680-8), this is the published description of the mouse construction. Briefly, a cassette encoding nlsCre and pA sequence along with FRT-Amp-FRT was recombineered into ATG of Cdh5 into PAC clone 353-G15 spanning Cdh5 genomic locus.

Primers:

JDW 82 (Cdh5-Fwd): 5' TCCTGATGGTGCCTATCCTC

JDW 83 (Cre2-Rev): 5' CCTGTTTTGCACGTTACCG

Transgene=448 bp

Reaction Conditions:

10x CL buffer (Qiagen)	2.5µl
Q solution (Qiagen)	2.5µl
dNTPs (10mM each stock)	0.5µl
Cdh5-FWD (20mM stock)	0.5µl
Cre2-REV (20mM stock)	0.5µl
DNA	1µl
Taq (Qiagen)	0.25µl
H2O	17.25µl

95°C – 2 minutes
95°C – 30 seconds
56°C – 30 seconds **X 35 Cycles**
72°C – 40 seconds
72°C – 7 minutes
16°C – forever

