

Supplementary Experimental Procedure

Primer	Sequence	Enzyme
hCHEM-5 Ngo	5'- <u>AGCCGGCC</u> ACCATGCGACGGCTGCTGAT	NgoMI V
hCHEM-3 Nhe-FL	5'- <u>AGCTAGCT</u> TAGCTGCGGGGCAGGGGCTT	Nhe I
hCHEM-3 Nhe-K	5'- <u>AGCTAGCT</u> TACTTGGAGAAGGCGAACTGTCC	Nhe I
hCHEM-3 Nhe-S	5'- <u>AGCTAGCT</u> TAGGAGAAGGCGAACTGTCCAG	Nhe I
hCHEM-3 Nhe-F	5'- <u>AGCTAGCT</u> TAGAAGGCGAACTGTCCAGGGA	Nhe I
hCHEM-3 Nhe-A	5'- <u>AGCTAGCT</u> TAGGCGAACTGTCCAGGGAAGT	Nhe I

hCHEM-5 Ngo was used as sense primer, and hCHEM-3 Nhe-K for chem158K, hCHEM-3 Nhe-S (chem157S), hCHEM-3 Nhe-F (chem156F) and hCHEM-3 Nhe-A (chem155A) were as anti-sense primers, in which the underlined nucleotides are restriction enzyme site described in the right column.