



D 3BNC60 germline heavy chain sequence

(a/t) <u>a</u> wa		t(a/t) tw		(a/g)g(c/t)(a/t) rgyw		(a/t)(a/g)c(c/t) wrgy	
Motif	Localization	Motif	Localization	Motif	Localization	Motif	Localization
aa	37-38 (FR1)	tt	75-76 (FR1)	agct	8-11 (FR1)	agct	8-11 (FR1)
aa	40-41 (FR1)	ta	82-83 (CDR1)	ggct	24-27 (FR1)	agcc	41-44 (FR1)
aa	58-59 (FR1)	tt	88-89 (CDR1)	ggct	72-75 (FR1)	tact	109-112 (CDR1)
aa	70-71 (FR1)	ta	109-110 (CDR1)	ggct	106-109 (CDR1)	aaacc	169-172 (CDR2)
ta	82-83 (CDR1)	ta	112-113 (CDR1)	ggct	146-149 (FR2)	aaat	196-199 (FR3)
ta	109-110 (CDR1)	ta	114-115 (CDR1)	ggca	190-193 (CDR2)	agcc	258-261 (FR3)
ta	112-113 (CDR1)	tt	149-150 (FR2)	agtt	209-212 (FR3)	agct	269-272 (FR3)
ta	114-115 (CDR1)	ta	174-175 (CDR2)	ggca	220-223 (FR3)	tact	307-310 (FR3)
aa	143-144 (FR2)	ta	199-200 (FR3)	agca	253-256 (FR3)		
aa	169-170 (CDR2)	tt	211-212 (FR3)	agct	269-272 (FR3)		
ta	174-175 (CDR2)	ta	262-263 (FR3)	agca	274-277 (FR3)		
aa	195-196 (CDR2)	ta	304-305 (FR3)	ggct	278-281 (FR3)		
ta	199-200 (FR3)	tt	306-307 (FR3)				
aa	208-209 (FR3)						
ta	262-263 (FR3)						
ta	304-305 (FR3)						
ta	307-308 (FR3)						

3BNC60 mature heavy chain sequence

(a/t) <u>a</u> wa		t(a/t) tw		(a/g)g(c/t)(a/t) rgyw		(a/t)(a/g)c(c/t) wrgy	
Motif	Localization	Motif	Localization	Motif	Localization	Motif	Localization
aa	37-38 (FR1)	tt	75-76 (FR1)	agct	8-11 (FR1)	agct	8- X (FR1)
aa	40-41 (FR1)	ta	82-83 (CDR1)	ggct	24-27 (FR1)	agcc	41-44 (FR1)
aa	X 58-59 (FR1)	tt	X 88-89 (CDR1)	ggct	72-75 (FR1)	tact	109- X 112 (CDR1)
aa	X 70-71 (FR1)	ta	X 109-110 (CDR1)	ggct	106-109 (CDR1)	aaacc	169- X 172 (CDR2)
ta	82-83 (CDR1)	ta	112-113 (CDR1)	ggct	146-149 (FR2)	aaat	196- X 199 (FR3)
ta	X 109-110 (CDR1)	ta	114-115 (CDR1)	ggca	190-193 (CDR2)	agcc	258- X 261 (FR3)
ta	X 112-113 (CDR1)	tt	149-150 (FR2)	agtt	209- X 212 (FR3)	agct	269- X 272 (FR3)
ta	114-115 (CDR1)	ta	174-175 (CDR2)	ggca	220-223 (FR3)	tact	307- X 310 (FR3)
aa	X 143-144 (FR2)	ta	199- X 200 (FR3)	agca	253- X 256 (FR3)		
aa	169-170 (CDR2)	tt	211-212 (FR3)	agct	269- X 272 (FR3)		
ta	174-175 (CDR2)	ta	262- X 263 (FR3)	agca	274- X 277 (FR3)		
aa	195-196 (CDR2)	ta	304- X 305 (FR3)	ggct	278- X 281 (FR3)		
ta	199-200 (FR3)	tt	306-307 (FR3)				
aa	208- X 209 (FR3)						
ta	262- X 263 (FR3)						
ta	304- X 305 (FR3)						
ta	307- X 308 (FR3)						

Figure S5