

**Supplementary Table 2 Statistical analyses comparing % maximal suppression of baseline for NanoBiT dissociation assays**

Gq/11 family		Gi/o family		G12/13 family					
Gq	p-value	G11	p-value	Gi1	p-value	Gi3	p-value	G12	p-value
b1 q vs. b4 15	*	b3 11 vs. b2 z	**	b1 i1 vs. b2 z	**	b1 i3 vs. b4 i3	**	b1 12 vs. b2 12	*
b1 q vs. b1 i2	**	b3 11 vs. b2 12	*	b1 i1 vs. b2 12	*	b1 i3 vs. b5 o	*	b1 12 vs. b2 13	*
b1 q vs. b3 i2	**	b3 11 vs. b2 13	*	b1 i1 vs. b2 13	*			b1 12 vs. b4 13	*
b1 q vs. b1 i3	**	b3 11 vs. b4 13	**	b1 i1 vs. b4 13	*	b2 i3 vs. b4 i3	*		
b1 q vs. b2 i3	**					b2 i3 vs. b5 o	*		
b1 q vs. b1 z	***	b4 11 vs. b2 z	**	b2 i1 vs. b2 z	*				
b1 q vs. b2 z	****	b4 11 vs. b2 12	*	b2 i1 vs. b4 13	*	b4 i3 vs. b1 z	**		
b1 q vs. b3 z	*	b4 11 vs. b2 13	*			b4 i3 vs. b2 z	****		
b1 q vs. b4 z	***	b4 11 vs. b4 13	**	b3 i1 vs. b1 z	*	b4 i3 vs. b3 z	*		
b1 q vs. b2 12	****			b3 i1 vs. b2 z	***	b4 i3 vs. b4 z	**		
b1 q vs. b3 12	**	<b>G14</b> p-value		b3 i1 vs. b4 z	*	b4 i3 vs. b2 12	****		
b1 q vs. b2 13	****	b1 14 vs. b2 z	*	b3 i1 vs. b2 12	**	b4 i3 vs. b3 12	**		
b1 q vs. b4 13	****	b1 14 vs. b2 12	*	b3 i1 vs. b2 13	**	b4 i3 vs. b2 13	****		
b1 q vs. b2 s	*	b1 14 vs. b4 13	*	b3 i1 vs. b4 13	***	b4 i3 vs. b4 13	****		
b1 q vs. b3 s	**					b4 i3 vs. b3 s	**		
		b2 14 vs. b2 z	*	b4 i1 vs. b1 i2	*				
b2 q vs. b1 z	*			b4 i1 vs. b1 i3	*	<b>Go</b> p-value			
b2 q vs. b2 z	***	<b>G15</b> p-value		b4 i1 vs. b1 z	*	b1 o vs. b1 z	*		
b2 q vs. b4 z	*	b2 15 vs. b2 z	**	b4 i1 vs. b2 z	****	b1 o vs. b2 z	***		
b2 q vs. b2 12	**	b2 15 vs. b2 12	*	b4 i1 vs. b4 z	**	b1 o vs. b4 z	*		
b2 q vs. b2 13	**	b2 15 vs. b2 13	*	b4 i1 vs. b2 12	***	b1 o vs. b2 12	**		
b2 q vs. b4 13	***	b2 15 vs. b4 13	*	b4 i1 vs. b2 13	***	b1 o vs. b2 13	**		
b2 q vs. b3 s	*			b4 i1 vs. b4 13	***	b1 o vs. b4 13	**		
		b3 15 vs. b2 z	*	b4 i1 vs. b3 s	*	b1 o vs. b3 s	*		
b3 q vs. b2 11	*	b3 15 vs. b2 12	*						
b3 q vs. b3 14	*	b3 15 vs. b4 13	*	b5 i1 vs. b1 i2	**	b2 o vs. b2 z	*		
b3 q vs. b1 15	*			b5 i1 vs. b3 i2	**				
b3 q vs. b4 15	**	b4 15 vs. b5 15	**	b5 i1 vs. b1 i3	**	b3 o vs. b2 z	***		
b3 q vs. b1 i2	***	b4 15 vs. b5 i1	*	b5 i1 vs. b2 i3	**	b3 o vs. b4 z	*		
b3 q vs. b3 i2	***	b4 15 vs. b4 i3	*	b5 i1 vs. b1 z	***	b3 o vs. b2 12	**		
b3 q vs. b4 i2	*	b4 15 vs. b5 o	*	b5 i1 vs. b2 z	****	b3 o vs. b2 13	**		
b3 q vs. b1 i3	***			b5 i1 vs. b3 z	**	b3 o vs. b4 13	**		
b3 q vs. b2 i3	***	b5 15 vs. b1 i2	***	b5 i1 vs. b4 z	***				
b3 q vs. b3 i3	*	b5 15 vs. b3 i2	**	b5 i1 vs. b2 12	****	b5 o vs. b1 z	**		
b3 q vs. b4 o	*	b5 15 vs. b1 i3	***	b5 i1 vs. b3 12	**	b5 o vs. b2 z	****		
b3 q vs. b1 z	****	b5 15 vs. b2 i3	**	b5 i1 vs. b2 13	****	b5 o vs. b3 z	*		
b3 q vs. b2 z	****	b5 15 vs. b1 z	***	b5 i1 vs. b4 13	****	b5 o vs. b4 z	**		
b3 q vs. b3 z	***	b5 15 vs. b2 z	****	b5 i1 vs. b2 s	*	b5 o vs. b2 12	***		
b3 q vs. b4 z	****	b5 15 vs. b3 z	**	b5 i1 vs. b3 s	***	b5 o vs. b3 12	*		
b3 q vs. b2 12	****	b5 15 vs. b4 z	***			b5 o vs. b2 13	***		
b3 q vs. b3 12	***	b5 15 vs. b2 12	****	<b>Gi2</b> p-value		b5 o vs. b4 13	***		
b3 q vs. b2 13	****	b5 15 vs. b3 12	**	b1 i2 vs. b4 i3	**	b5 o vs. b3 s	**		
b3 q vs. b4 13	****	b5 15 vs. b2 13	****	b1 i2 vs. b5 o	*	<b>Gz</b> p-value			
b3 q vs. b2 s	**	b5 15 vs. b4 13	****			b2 z vs. b1 12	**		
b3 q vs. b3 s	****	b5 15 vs. b2 s	**	b2 i2 vs. b2 z	*				
		b5 15 vs. b3 s	***			b3 i2 vs. b4 i3	**		
						b3 i2 vs. b5 o	*		

Analyses were performed in Graphpad using one-way ANOVA. Only comparisons that were significantly different are shown in the table.