

Additional File 2: *AeDscam* individual exon variant counts

Experiment	Feed	Treatment	Replicate	Exon 6 variant																													
				6.1	6.2	6.3	6.4	6.5	6.6	6.7	6.8	6.9	6.10	6.11	6.12	6.13	6.14	6.15	6.16	6.17	6.18	6.19	6.20	6.21	6.22	6.23	6.24	6.25	6.26	6.27	6.28		
Field	1	SH158 +++	1	0	0	1	2	1	0	4	0	0	0	4	1	0	1	0	0	1	1	0	0	0	1	0	0	1	0	1	2	0	2
		SH158 +++	2	4	0	3	0	0	1	0	1	7	2	0	0	0	0	2	0	2	0	4	0	3	0	1	2	0	0	3	1	1	0
		SH158 +++	3	0	0	0	1	4	1	0	3	1	1	0	0	2	0	2	0	2	2	4	0	0	0	0	3	0	1	0	0	0	
		SH79 ++	1	2	0	2	0	0	0	0	5	2	0	4	1	0	0	0	0	1	3	0	2	1	0	1	5	0	7	0	0	0	
		SH79 ++	2	7	0	0	1	1	0	2	2	0	1	0	1	6	0	0	1	1	1	0	1	0	4	0	0	0	2	0	0	0	
		SH79 ++	3	5	0	1	2	4	1	3	0	0	3	1	1	0	1	0	1	1	2	0	0	0	1	4	1	0	2	0	3	0	
		K10 +	1	7	0	0	0	0	1	0	0	1	0	0	0	3	0	0	2	0	0	1	0	1	0	1	1	0	4	2	0	0	
		K10 +	2	2	0	2	0	1	0	0	0	0	0	0	0	0	0	2	0	1	3	1	0	5	1	3	1	0	0	0	0	0	
		K10 +	3	9	0	0	3	0	0	0	1	3	3	0	0	3	2	1	1	1	0	1	2	0	0	2	4	0	2	0	0	0	
		SH165 -	1	4	1	0	1	2	0	1	4	0	2	0	0	0	0	0	1	1	0	1	2	6	3	0	0	0	1	0	0	1	
		SH165 -	2	5	0	0	0	5	0	0	3	0	0	1	0	4	2	0	2	0	0	1	1	1	0	1	7	0	0	0	0	0	
		SH165 -	3	3	1	1	1	0	1	0	2	0	1	0	0	0	4	0	0	1	0	1	5	0	3	0	0	0	0	0	0	0	
		2	SH93 +++	1	4	0	1	0	2	0	2	6	2	1	0	0	1	0	1	0	0	2	0	1	1	1	4	0	0	3	0	0	
			SH93 +++	2	2	0	0	2	2	1	0	1	2	1	3	1	0	0	2	0	1	1	2	0	1	0	0	2	0	1	0	1	0
			SH93 +++	3	1	0	1	0	1	1	2	1	4	0	1	0	1	0	0	0	4	2	3	0	2	0	0	1	0	1	0	1	0
	SH25 ++		1	4	0	0	2	0	1	3	0	2	2	1	1	2	1	0	1	1	3	0	1	0	0	1	1	0	1	0	0	0	
	SH25 ++		2	2	0	0	0	2	0	1	2	0	1	1	1	1	5	0	3	3	0	0	1	3	2	1	1	0	1	0	2	0	
	SH25 ++		3	7	0	0	0	3	0	0	3	0	1	2	1	0	0	0	0	1	0	0	0	0	3	1	2	0	7	0	0	0	
	IG14 +		1	15	1	0	0	1	0	0	0	0	0	0	0	0	1	0	4	2	1	0	1	1	0	0	0	0	0	0	1	0	
	IG14 +		2	1	1	0	0	0	0	0	0	1	2	2	0	1	1	4	2	0	2	0	0	0	0	0	0	0	0	1	2	0	
	IG14 +		3	8	0	0	1	0	0	0	3	0	0	1	0	0	2	1	1	0	3	0	0	0	0	1	2	0	3	0	0	0	
	SH82 -		1	2	1	1	0	1	0	0	2	0	2	2	1	0	1	0	1	1	1	1	0	1	0	2	0	0	0	2	1	0	
	SH82 -		2	2	0	0	0	2	0	0	0	0	0	0	1	0	0	1	0	1	4	3	0	0	0	1	0	0	2	0	0	0	
	SH82 -		3	2	0	0	0	1	3	4	3	1	0	1	0	2	0	0	0	0	0	1	0	2	2	0	0	0	4	0	0	0	
	Lab		1	Unfed Con	1	12	0	0	2	0	0	1	3	0	0	1	0	4	0	0	0	2	0	0	0	0	2	0	0	1	0	0	
				Unfed Con	2	14	1	0	1	0	1	0	3	0	3	0	1	0	0	0	0	0	2	3	0	1	2	0	0	0	0	0	0
				Unfed Con	3	23	0	0	3	1	2	0	7	0	2	3	2	0	2	0	0	0	0	0	0	1	0	0	0	0	0	0	0
		FedCon		1	11	0	2	0	0	1	0	0	0	1	1	0	0	2	1	0	7	0	6	2	1	1	0	5	1	0	4	0	0
		FedCon		2	8	0	4	0	0	0	1	0	2	0	0	2	3	0	1	1	0	2	0	1	1	2	0	0	0	0	4	2	0
		FedCon		3	6	0	3	0	0	0	2	0	1	1	1	0	5	3	0	2	0	1	0	0	0	0	0	3	0	2	2	0	
3D7		1		8	0	5	0	2	1	0	5	0	2	0	3	2	0	0	0	1	4	1	1	0	2	3	0	0	1	2	2		
3D7		2		7	0	1	1	0	1	1	2	1	5	0	1	1	2	4	0	5	1	3	1	1	0	1	0	1	0	3	0	0	
3D7		3		15	2	3	1	1	2	0	3	0	0	1	0	2	3	0	2	0	0	0	0	0	3	3	0	0	0	0	1	0	
HB3		5		13	0	4	0	2	1	0	2	0	0	4	0	0	1	2	0	0	2	3	2	0	1	1	2	1	2	0	1	0	
HB3		2		3	1	3	0	0	0	2	0	0	0	1	1	2	0	0	1	0	2	2	1	1	3	0	0	0	4	0	2	0	
HB3		3		13	0	1	0	2	1	1	0	2	1	1	1	2	0	3	0	0	3	0	2	2	0	1	0	0	2	0	4	1	
MIX		1		7	0	3	2	0	1	1	2	2	1	0	0	0	1	0	2	0	4	0	3	1	1	2	2	0	4	1	0	0	
MIX		2		5	0	3	0	5	3	1	1	2	0	1	0	1	1	4	1	0	2	2	0	1	2	2	1	0	3	0	0	0	
MIX		3		14	0	2	0	1	3	0	1	0	0	3	1	0	0	0	0	1	3	1	0	1	2	1	0	0	1	0	0	0	
2		FedCon	1	9	0	2	2	0	3	1	0	0	0	3	0	0	2	0	3	3	1	2	0	0	3	0	2	0	1	1	0		
		FedCon	2	4	0	1	0	2	1	2	17	1	1	0	1	3	0	1	1	2	1	1	1	2	1	0	2	0	2	1	0	0	
		FedCon	3	2	0	1	0	1	2	0	0	0	1	0	0	2	0	1	0	0	5	2	0	1	1	0	2	0	3	0	0	0	
		3D7	1	4	0	6	1	1	1	0	8	4	0	1	0	0	0	1	2	3	1	1	1	2	0	1	0	0	0	0	0	0	
		3D7	2	6	1	3	0	0	0	1	1	1	0	1	2	2	2	0	0	1	0	1	1	1	1	1	0	0	2	0	1	0	
		3D7	3	19	1	2	0	1	2	1	3	0	2	1	0	0	0	0	0	1	7	0	3	0	0	1	1	0	0	1	0		
		HB3	1	2	0	1	0	0	1	2	3	1	2	0	0	1	1	0	0	1	1	2	1	4	0	2	1	0	0	0	0	0	
		HB3	2	9	0	1	1	1	1	2	7	0	1	0	1	5	2	1	1	1	4	2	1	0	1	0	0	0	0	0	1	0	
		HB3	3	17	1	1	0	1	0	3	0	0	0	0	0	1	1	0	0	5	5	1	1	0	3	1	1	0	0	3	2	0	
		MIX	1	2	0	3	0	6	4	1	2	1	1	1	0	4	0	2	0	2	2	1	4	2	1	0	1	2	0	5	0	0	
		MIX	2	11	0	1	1	2	0	0	0	2	0	0	2	1	0	1	1	4	1	0	0	0	3	0	0	3	0	2	0	0	
		MIX	3	10	0	3	2	0	5	0	5	0	1	1	1	3	0	0	0	2	3	0	0	1	0	0	0	0	0	3	0	0	
		3	FedCon	1	16	0	1	0	2	2	0	2	0	0	4	2	1	0	2	2	0	0	2	1	0	0	1	0	0	1	4	0	
			FedCon	2	0	0	0	3	0	0	4	1	1	0	0	2	0	0	1	0	2	0	0	3	0	1	2	0	0	0	2	0	
			FedCon	3	3	0	2	0	1	0	2	1	4	0	0	0	0	0	0	0	0	1	1	0	0	0	1	0	0	0	0	0	
3D7	1		13	0	0	0	0	1	3	7	1	1	0	0	0	0	0	2	0	0	0	4	1	0	2	1	0	0	1	0			
3D7	2		3	0	3	0	0	2	2	4	2	1	2	0	3	0	0	3	0	2	0	2	0	4	0	1	0	6	0	0			
3D7	3		4	5	0	0	2	1	2	0	2	2	1	3	2	0	0	0	1	0	7	2	4	0	3	0	0	1	0	1			
HB3	1		6	0	0	3	2	4	1	2	1	2	1	1	0	1	1	0	1	3	6	1	0	4	0	0	0	3	3	0			
HB3	2		10	1	2	2	0	2	0	1	1	0	1	1	2	2	0	1	0	0	3	0	0	1	1	0	0	1	1	2			
HB3	3		1	3	3	2	0	2	0	1	0	2	0	0	0	0	1	0	0	1	0	3	2	4	1	0	0	1	0				

Experiment	Feed	Treatment	Replicate	Exon 4 variant														
				4.1	4.2	4.3	4.4	4.5	4.6	4.7	4.8	4.9	4.10	4.11	4.12	4.13	4.14	
Field	1	SH158 +++	1	5	0	0	0	3	2	0	0	3	0	1	0	0	0	
		SH158 +++	2	4	1	1	0	3	5	7	2	0	2	3	1	1	1	
		SH158 +++	3	3	0	5	0	3	6	3	0	0	0	1	1	4	1	
		SH79 ++	1	3	1	0	0	5	7	2	8	0	0	0	1	0	5	
		SH79 ++	2	5	0	1	4	7	2	0	6	0	2	1	2	1	4	
		SH79 ++	3	5	1	3	3	1	1	1	2	1	1	6	2	3	3	
		K10 +	1	3	2	1	0	3	3	1	4	0	0	1	1	2	1	
		K10 +	2	0	7	0	2	1	3	4	0	1	0	2	0	0	1	
		K10 +	3	2	2	3	0	4	6	3	7	2	0	0	0	2	5	
		SH165 -	1	0	0	1	0	3	3	7	2	2	0	0	0	0	4	
		SH165 -	2	5	2	0	3	9	6	4	0	0	0	1	0	0	4	
		SH165 -	3	15	0	0	0	2	2	3	0	0	1	0	1	0	0	
		2	SH93 +++	1	1	0	3	1	8	4	2	4	0	1	1	0	4	3
			SH93 +++	2	6	0	1	0	1	3	4	0	0	1	2	2	2	0
			SH93 +++	3	5	1	2	0	1	6	5	0	3	0	2	0	1	1
	SH25 ++		1	5	0	3	3	6	1	0	5	0	0	2	2	1	2	
	SH25 ++		2	8	0	0	1	5	4	1	1	0	1	4	2	2	2	
	SH25 ++		3	2	0	1	0	3	3	1	10	0	0	1	1	2	5	
	IG14 +		1	4	1	0	0	2	4	6	6	0	0	1	0	1	6	
	IG14 +		2	3	0	0	0	4	9	0	0	0	0	1	0	1	4	
	IG14 +		3	2	3	1	2	1	1	3	0	0	0	4	0	2	0	
	SH82 -		1	6	1	2	2	1	5	3	1	0	2	1	0	2	2	
	SH82 -		2	5	0	0	0	2	2	3	0	1	0	0	0	1	3	
	SH82 -		3	2	0	0	0	7	4	1	1	3	0	5	1	0	4	
	Lab	1	Unfed Con	1	4	3	0	2	7	6	6	7	0	0	2	0	2	6
			Unfed Con	2	6	1	0	0	1	1	1	5	2	0	0	3	4	8
			Unfed Con	3	3	1	2	5	7	5	6	4	2	1	4	1	2	5
FedCon			1	12	0	0	5	3	5	6	0	1	1	1	1	7	5	
FedCon			2	4	1	0	3	6	4	5	1	2	0	8	0	1	1	
FedCon			3	8	0	0	0	0	5	6	2	0	0	0	0	3	8	
3D7			1	14	0	0	3	7	5	1	6	3	0	1	1	2	3	
3D7			2	8	0	0	1	8	0	7	2	0	3	0	1	4	9	
3D7			3	12	1	0	0	5	5	3	5	0	4	0	0	5	7	
HB3		5	7	0	0	1	6	6	5	5	0	1	2	1	4	9		
HB3		2	15	0	0	0	1	3	2	8	3	0	0	0	1	3		
HB3		3	8	0	0	0	4	8	7	3	0	0	0	1	8	5		
MIX		1	4	0	1	0	7	6	5	5	0	1	4	2	1	8		
MIX		2	10	0	1	0	1	4	5	3	0	0	0	0	1	15		
MIX		3	8	2	0	2	6	0	8	3	0	2	5	0	1	3		
2		FedCon	1	8	0	0	0	7	6	3	7	3	0	1	1	3	6	
		FedCon	2	4	2	0	2	2	17	6	0	0	1	0	3	5		
		FedCon	3	3	0	0	2	2	6	5	2	0	0	0	3	5		
		3D7	1	5	1	0	4	4	6	7	2	0	2	0	0	2	6	
		3D7	2	3	0	3	1	3	6	5	2	0	1	3	1	1	2	
		3D7	3	12	0	0	2	14	2	4	4	0	0	4	0	4	2	
		HB3	1	4	2	0	1	2	1	4	0	0	0	0	0	2	9	
		HB3	2	14	0	0	1	3	4	5	4	0	0	1	0	4	11	
		HB3	3	4	1	0	0	12	0	10	3	0	1	0	0	8	6	
		MIX	1	7	0	3	1	3	9	3	4	1	1	0	0	4	11	
		MIX	2	6	0	1	5	4	2	3	4	0	0	3	0	3	4	
		MIX	3	7	1	1	1	1	5	9	9	1	2	0	1	4	5	
3		FedCon	1	11	0	0	0	12	3	7	3	0	3	0	0	6	3	
		FedCon	2	0	1	0	0	5	4	0	1	1	0	4	0	0	6	
		FedCon	3	3	0	1	0	4	2	0	0	1	0	0	0	0	7	
	3D7	1	6	0	0	3	4	2	8	3	1	0	2	0	3	7		
	3D7	2	6	3	1	3	9	0	4	6	2	0	0	0	3	8		
	3D7	3	11	0	0	0	7	5	4	5	0	2	4	0	1	6		
	HB3	1	6	0	0	7	7	8	3	3	3	1	1	1	3	5		
	HB3	2	7	0	0	3	3	6	2	3	1	0	4	1	4	3		
	HB3	3	11	3	2	0	4	3	2	3	0	1	0	1	2	5		
	MIX	1	4	1	0	2	5	5	9	3	0	3	4	0	3	6		
	MIX	2	9	0	0	4	4	3	5	5	1	0	2	0	0	13		
	MIX	3	8	0	0	6	4	9	4	3	0	0	4	1	1	7		