

RELAX Combined Report

SRV vs SRV+Double vs SRV+Double+Triple

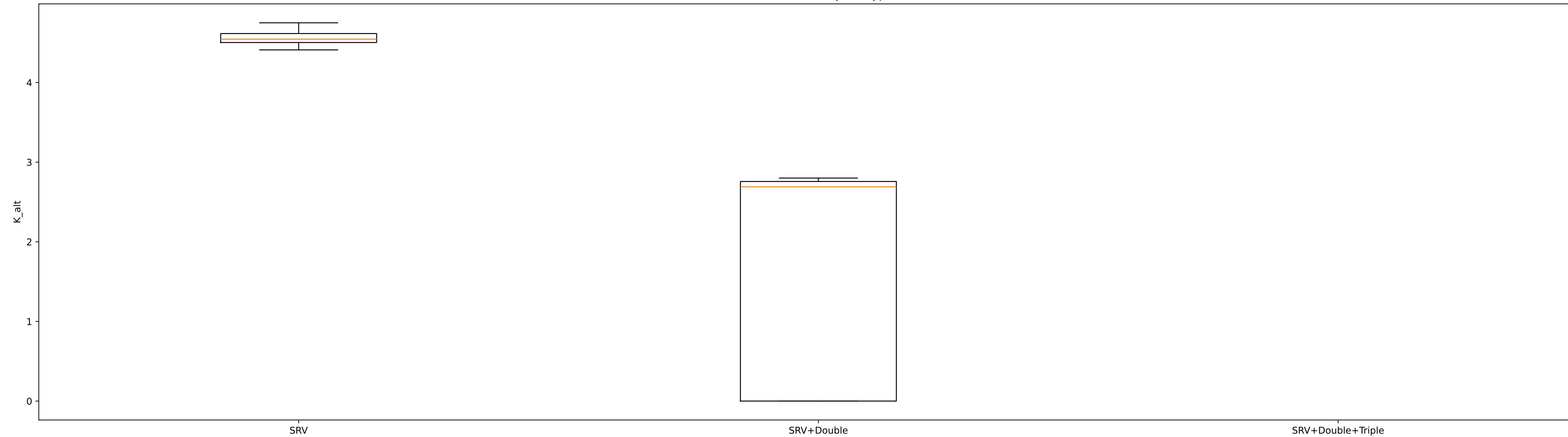
Includes:

- Run-type summary
- Boxplots: K, p-values, 2H/3H
- Full omega/SRV/multihit tables (column-paged)

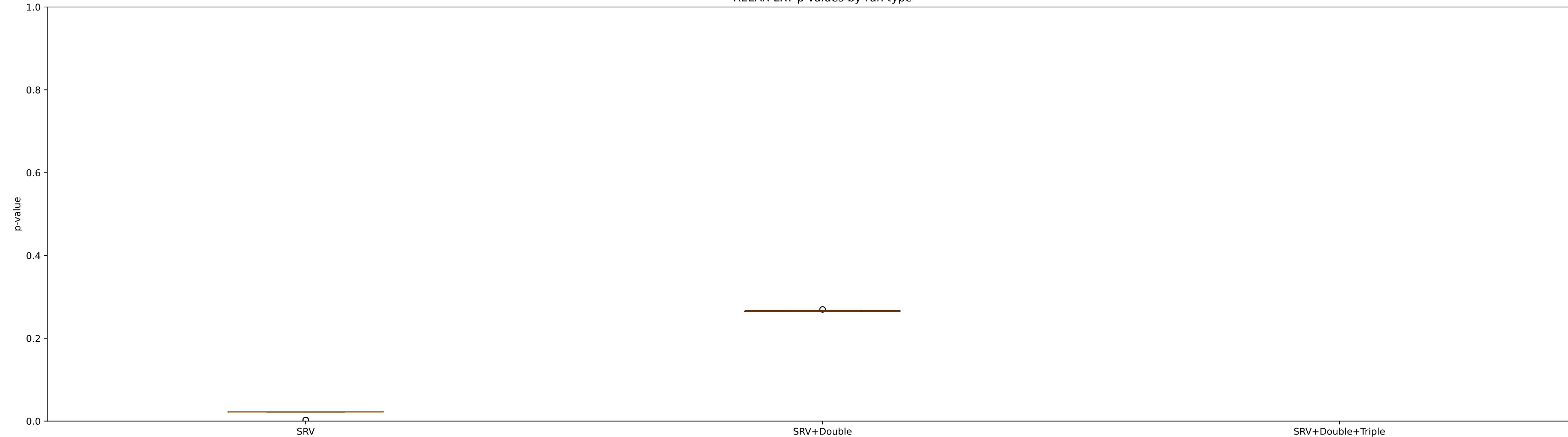
Run-type summary statistics

p_median	p_min	p_max	K_median	K_min	K_max	omega_ref_medi an	omega_test_medi an	warnings_count	2H_reference_m edian	2H_test_median
0.0226	0.0026	0.0229	4.545	4.41	4.75	0.2914	1.9113	10	nan	nan
0.2659	0.2645	0.2697	2.69	0.0	2.8	0.2914	1.9113	10	0.0	1.7418
nan	nan	nan	nan	nan	nan	nan	nan	0	nan	nan

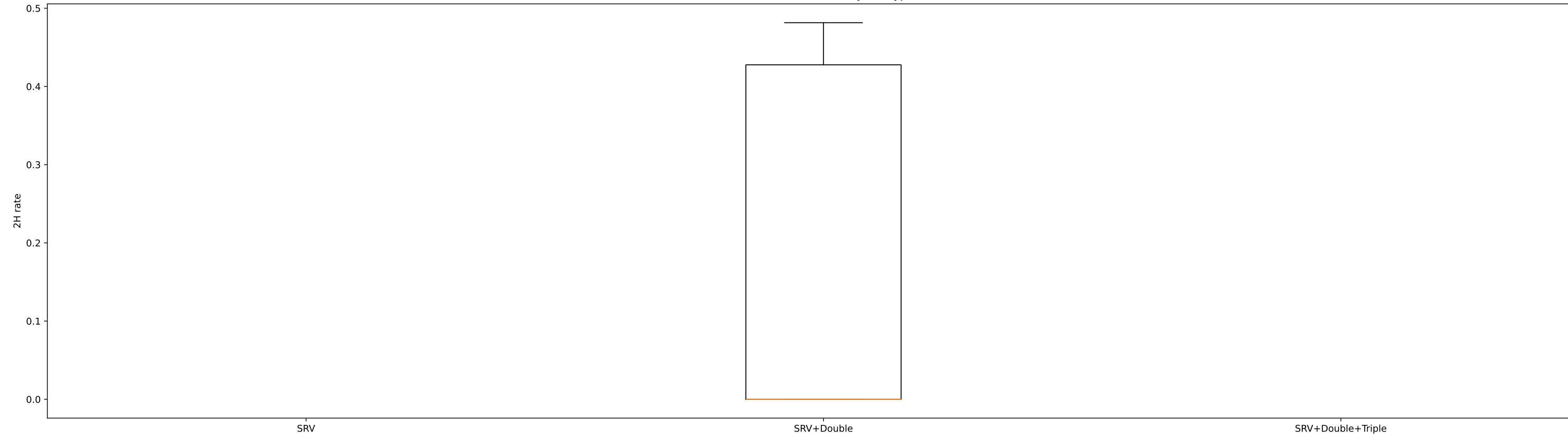
K (alternative) by run type



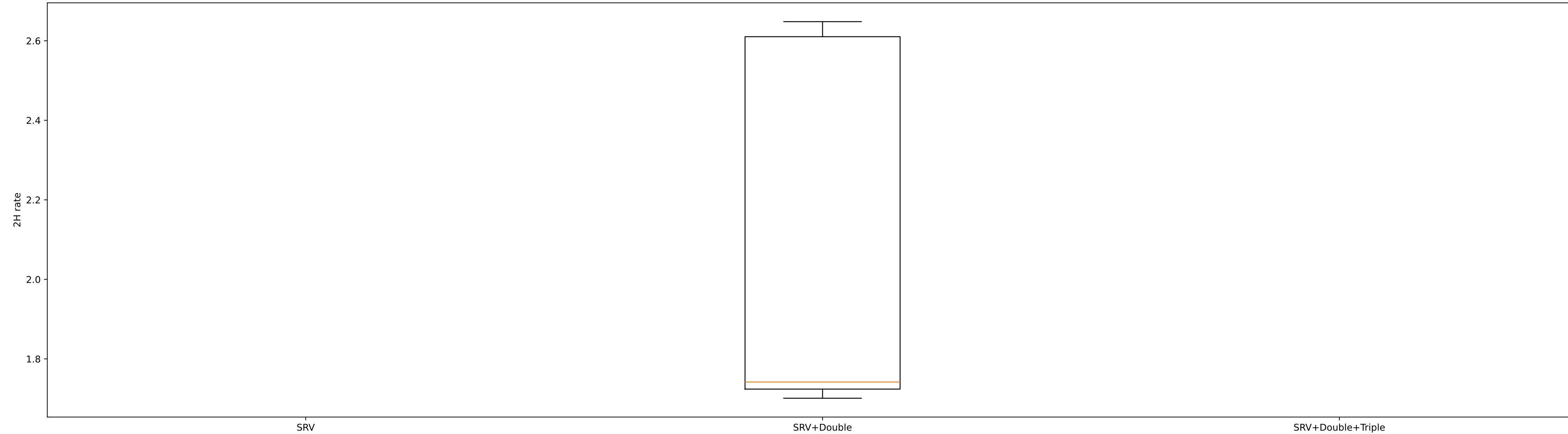
RELAX LRT p-values by run type



2H rates (reference) by run type



2H rates (test) by run type



No 3H rates available

Replicate-level summary — SRV (page 1/1)

	replicate	p_value	K_alt	global_dNdS_re ference	global_dNdS_te st
	1	0.0229	4.41	0.2914	1.9113
	2	0.0222	4.63	0.2914	1.9113
	3	0.0228	4.54	0.2914	1.9113
	4	0.0228	4.55	0.2914	1.9113
	5	0.0227	4.75	0.2914	1.9113
	6	0.0026	4.5	0.2914	1.9113
	7	0.0027	4.7	0.2914	1.9113
	8	0.0226	4.57	0.2914	1.9113
	9	0.0226	4.47	0.2914	1.9113
	10	0.0224	4.51	0.2914	1.9113

Replicate-level summary — SRV+Double (page 1/1)

	replicate	p_value	K_alt	global_dNdS_re ference	global_dNdS_te st
	1	0.2648	2.77	0.2914	1.9113
	2	0.2658	0.0	0.2914	1.9113
	3	0.2655	2.8	0.2914	1.9113
	4	0.2668	2.72	0.2914	1.9113
	5	0.2674	2.7	0.2914	1.9113
	6	0.2645	0.0	0.2914	1.9113
	7	0.2662	0.0	0.2914	1.9113
	8	0.2648	0.0	0.2914	1.9113
	9	0.2697	2.68	0.2914	1.9113
	10	0.266	2.78	0.2914	1.9113

Replicate-level summary — SRV+Double+Triple (page 1/1)

	replicate	p_value	K_alt	global_dNdS_re ference	global_dNdS_te st
	1	nan	nan	nan	nan
	2	nan	nan	nan	nan
	3	nan	nan	nan	nan
	4	nan	nan	nan	nan
	5	nan	nan	nan	nan
	6	nan	nan	nan	nan
	7	nan	nan	nan	nan
	8	nan	nan	nan	nan
	9	nan	nan	nan	nan
	10	nan	nan	nan	nan

					0.0	70.929	SRV
				Negative selection	0.0	70.929	SRV
				Neutral evolution	1.0	28.524	SRV
				Neutral evolution	1.0	28.524	SRV
	reference			Diversifying selection	0.057		SRV
	reference			Negative selection	68.966		SRV
	reference			Neutral evolution	1.0	30.977	SRV
	test			Diversifying selection	134161.131	0.057	SRV
	test			Negative selection	0.0	68.966	SRV
	test			Neutral evolution	1.0	30.977	SRV
	reference			Diversifying selection	7.762	0.55	SRV
	reference			Negative selection	0.0	70.911	SRV
	reference			Neutral evolution	1.0	28.539	SRV
	test			Diversifying selection	10363.062	0.55	SRV
	test			Diversifying selection	7.762	0.55	SRV
	test			Negative selection	0.0	70.911	SRV
	test			Negative selection	0.0	70.911	SRV
	test			Neutral evolution	1.0	28.539	SRV
	test			Neutral evolution	1.0	28.539	SRV
	reference			Diversifying selection	496718.712	0.068	SRV
	reference			Negative selection	0.0	69.075	SRV
	reference			Neutral evolution	1.0	30.857	SRV
	test			Diversifying selection	496718.712	0.068	SRV
	test			Negative selection	0.0	69.075	SRV
	test			Neutral evolution	1.0	30.857	SRV
	reference			Diversifying selection	2.208	11.962	SRV+Double
	reference			Negative selection	0.0	80.433	SRV+Double
	reference			Neutral evolution	1.0	7.605	SRV+Double
	test			Diversifying selection	9.004	11.962	SRV+Double
	test			Diversifying selection	2.208	11.962	SRV+Double
	test			Negative selection	0.0	80.433	SRV+Double
	test			Negative selection	0.0	80.433	SRV+Double
	test			Neutral evolution	1.0	7.605	SRV+Double
	test			Neutral evolution	1.0	7.605	SRV+Double
	reference			Diversifying selection	2.352	11.245	SRV+Double
	reference			Negative selection	0.0	79.885	SRV+Double
	reference			Neutral evolution	1.0	8.871	SRV+Double
	test			Diversifying selection	2.352	11.245	SRV+Double
	test			Negative selection	0.0	79.885	SRV+Double
	test			Neutral evolution	1.0	8.871	SRV+Double
	reference			Diversifying selection	1.796	18.637	SRV+Double
	reference			Negative selection	0.0	81.363	SRV+Double
	reference			Negative selection	0.171	0.0	SRV+Double
	test			Diversifying selection	1.796	18.637	SRV+Double
	test			Negative selection	0.0	81.363	SRV+Double
	test			Negative selection	0.171	0.0	SRV+Double
	test			Neutral evolution	1.0	0.0	SRV+Double
	test			Neutral evolution	1.0	81.363	SRV+Double
	test			Neutral evolution	1.0	0.0	SRV+Double
	reference			Diversifying selection	1.95	17.988	SRV+Double

			2.575		26.296		SRV	
	1		0.021		46.488		SRV	
	2		0.021		2.767		SRV	
	3		1.951		50.745		SRV	
	1		0.0	SRV rate classes (all) (cols 1-6/6)	42.957		SRV	
	2		1.155		31.096		SRV	
	3		2.47		25.947		SRV	
	1		0.022		26.081		SRV	
	2		0.022		23.213		SRV	
	3		1.951		50.705		SRV	
	1		0.001		36.114		SRV	
	2		0.732		32.827		SRV	
	3		2.445		31.058		SRV	
SRV	1		0.0		0.0		SRV	
	2		0.022		49.248		SRV	
	3		1.949		50.752		SRV	
	1		0.207		42.667		SRV	
	2		0.315		22.236		SRV	
	3		2.398		35.097		SRV	
	1		0.02		48.017		SRV	
	2		0.02		1.345		SRV	
	3		1.955		50.639		SRV	
	1		0.001		34.169		SRV	
	2		0.639		33.081		SRV	
	3		2.407		32.75		SRV	
	1		0.024		49.357		SRV	
	2		0.054		0.0		SRV	
	3		1.951		50.643		SRV	
	1		0.0		33.863		SRV	
	2		0.797		31.881		SRV	
	3		2.177		34.256		SRV	
	1		0.02		1.138		SRV	
	2		0.02		48.124		SRV	
	3		1.951		50.739		SRV	
	1		0.0		33.737		SRV	
	2		0.675		27.063		SRV	
	3		2.085		39.199		SRV	
	1		0.022		49.292		SRV	
	2		0.056		0.0		SRV	
SRV	3		1.951		50.708		SRV	
	1		0.0		26.07		SRV	
	2		0.478		40.748		SRV	
	3		2.427		33.182		SRV	
	1		0.023		49.215		SRV	
	2		0.023		0.061		SRV	
	3		1.949		50.724		SRV	
	1		0.0		33.014		SRV	
	2		0.697		37.822		SRV	
	3		2.525		29.164		SRV	
	1		0.023		49.35		SRV	

	test		2H	1.7299	SRV+Double	
	reference		2H	0.4412	SRV+Double	
	reference		2H	0.0	SRV+Double	
	test		2H	1.7271	SRV+Double	
	reference		2H	0.0	SRV+Double	
	test		2H	2.624	SRV+Double	
	test		2H	1.7389	SRV+Double	
	reference		2H	0.4289	SRV+Double	
	reference		2H	0.0	SRV+Double	
	test		2H	1.7052	SRV+Double	
	reference		2H	0.0	SRV+Double	
	test		2H	2.6044	SRV+Double	
	test		2H	1.7481	SRV+Double	
	reference		2H	0.4791	SRV+Double	
	reference		2H	0.0	SRV+Double	
	test		2H	1.7087	SRV+Double	
	reference		2H	0.0	SRV+Double	
	test		2H	2.6228	SRV+Double	
	test		2H	1.7832	SRV+Double	
	reference		2H	0.4271	SRV+Double	
	reference		2H	0.0	SRV+Double	
	test		2H	1.7011	SRV+Double	
	reference		2H	0.0	SRV+Double	
	test		2H	2.6186	SRV+Double	
	test		2H	1.7897	SRV+Double	
	reference		2H	0.4278	SRV+Double	
	reference		2H	0.0	SRV+Double	
	test		2H	1.7231	SRV+Double	
	reference		2H	0.0	SRV+Double	
	test		2H	2.6103	SRV+Double	
	test		2H	1.731	SRV+Double	
	reference		2H	0.45	SRV+Double	
	reference		2H	0.0	SRV+Double	
	test		2H	1.7065	SRV+Double	
	reference		2H	0.0	SRV+Double	
	test		2H	2.6481	SRV+Double	
	test		2H	1.7358	SRV+Double	
	reference		2H	0.4245	SRV+Double	
	reference		2H	0.0	SRV+Double	
	test		2H	1.7341	SRV+Double	
	reference		2H	0.0	SRV+Double	
	test		2H	2.619	SRV+Double	
	test		2H	1.7448	SRV+Double	
	reference		2H	0.4815	SRV+Double	
	reference		2H	0.0	SRV+Double	
	test		2H	1.7185	SRV+Double	
	reference		2H	0.0	SRV+Double	
	test		2H	2.6103	SRV+Double	
	test		2H	1.7224	SRV+Double	
	reference		2H	0.4294	SRV+Double	