

## RELAX Combined Report

SRV vs SRV+Double vs SRV+Double+Triple

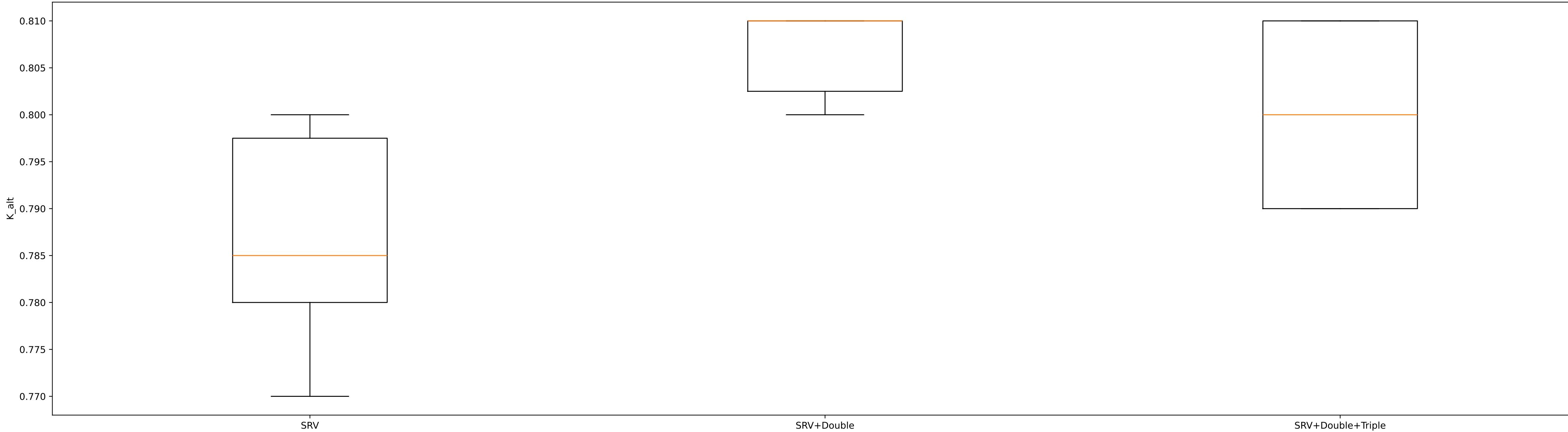
Includes:

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

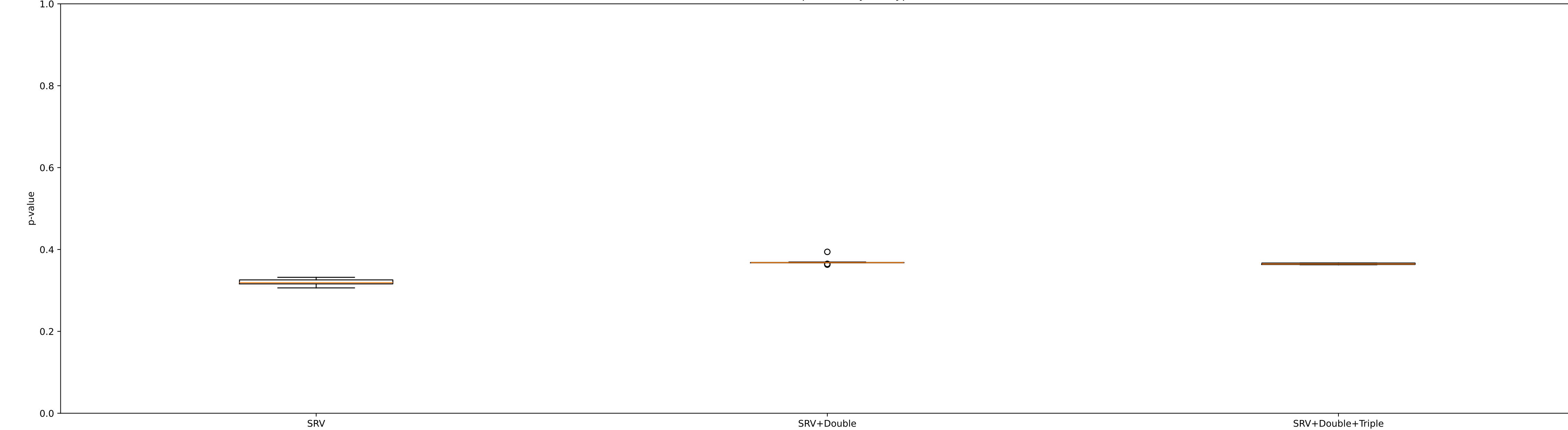
## Run-type summary statistics

<b>p_median</b>	<b>p_min</b>	<b>p_max</b>	<b>K_median</b>	<b>K_min</b>	<b>K_max</b>	<b>omega_ref_medi an</b>	<b>omega_test_medi an</b>	<b>warnings_count</b>	<b>2H_reference_m edian</b>	<b>2H_test_median</b>
0.319	0.3062	0.332	0.785	0.77	0.8	0.2165	0.2936	10	nan	nan
0.368	0.363	0.3942	0.81	0.8	0.81	0.2165	0.2936	10	0.0	0.0306
0.3646	0.3627	0.367	0.8	0.79	0.81	0.2165	0.2936	9	0.0	0.0303

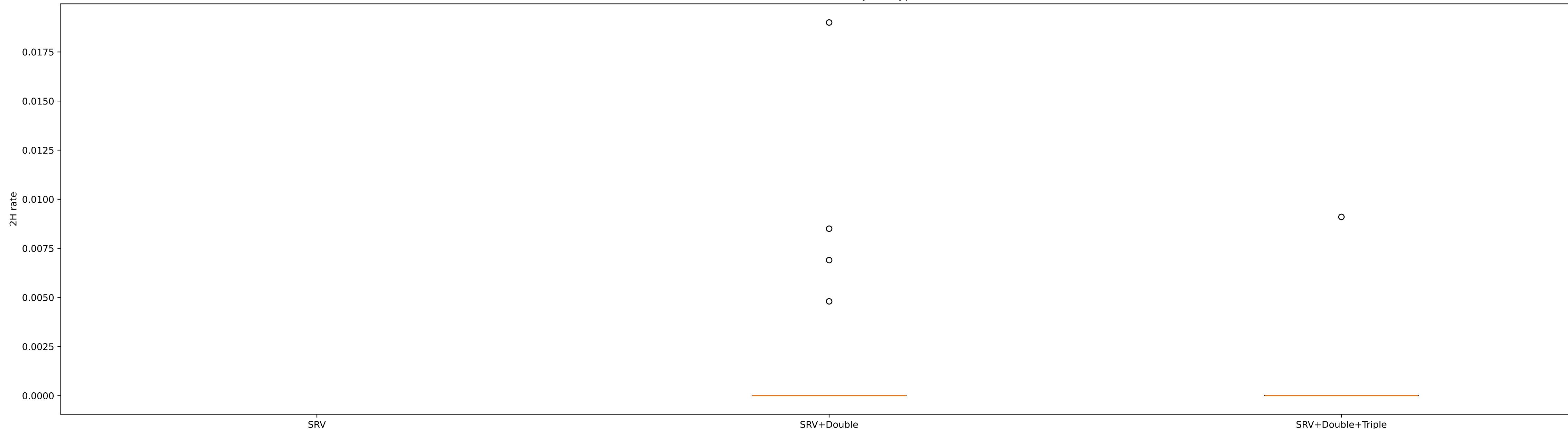
K (alternative) by run type



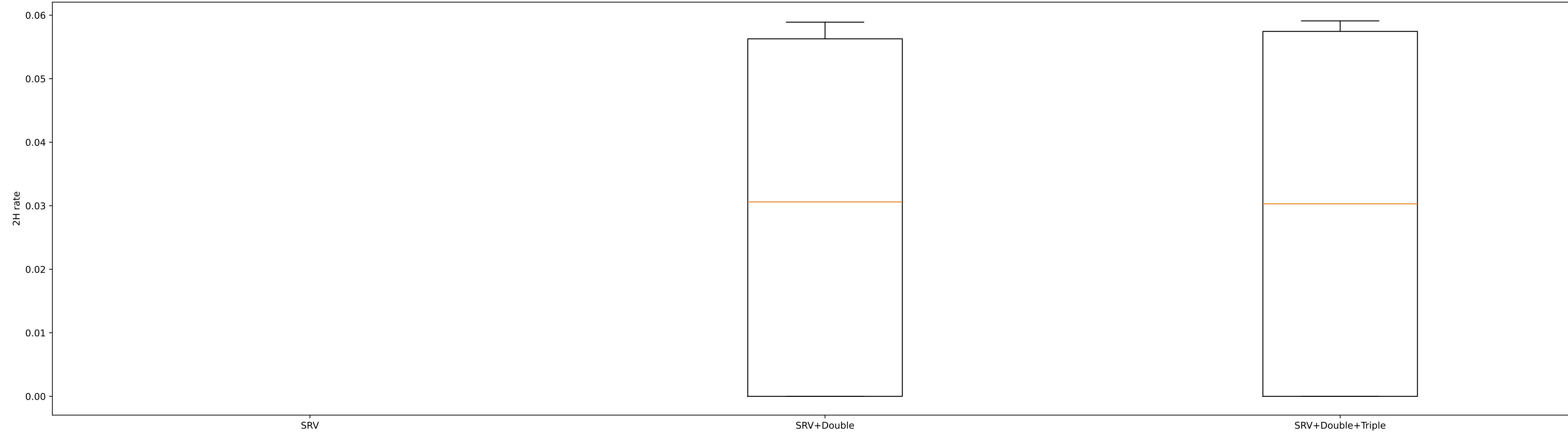
RELAX LRT p-values by run type



2H rates (reference) by run type



2H rates (test) by run type



3H rates (reference) by run type



3H rates (test) by run type



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

	<b>replicate</b>	<b>p_value</b>	<b>K_alt</b>	<b>global_dNdS_re ference</b>	<b>global_dNdS_te st</b>
	1	0.3293	0.8	0.2165	0.2936
	2	0.3196	0.78	0.2165	0.2936
	3	0.3153	0.78	0.2165	0.2936
	4	0.332	0.8	0.2165	0.2936
	5	0.3217	0.79	0.2165	0.2936
	6	0.3184	0.78	0.2165	0.2936
	7	0.3271	0.8	0.2165	0.2936
	8	0.318	0.79	0.2165	0.2936
	9	0.3092	0.78	0.2165	0.2936
	10	0.3062	0.77	0.2165	0.2936

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

	<b>replicate</b>	<b>p_value</b>	<b>K_alt</b>	<b>global_dNdS_re ference</b>	<b>global_dNdS_te st</b>
	1	0.3681	0.8	0.2165	0.2936
	2	0.363	0.8	0.2165	0.2936
	3	0.3694	0.81	0.2165	0.2936
	4	0.3682	0.81	0.2165	0.2936
	5	0.3678	0.81	0.2165	0.2936
	6	0.3676	0.81	0.2165	0.2936
	7	0.3649	0.8	0.2165	0.2936
	8	0.3942	0.81	0.2165	0.2936
	9	0.3683	0.81	0.2165	0.2936
	10	0.3675	0.81	0.2165	0.2936

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

	<b>replicate</b>	<b>p_value</b>	<b>K_alt</b>	<b>global_dNdS_re ference</b>	<b>global_dNdS_te st</b>
	1	0.367	0.81	0.2165	0.2936
	2	0.3669	0.81	0.2165	0.2936
	3	0.3633	0.79	0.2165	0.2936
	4	0.3633	0.79	0.2165	0.2936
	5	0.3669	0.81	0.2165	0.2936
	6	0.3629	0.8	0.2165	0.2936
	7	0.3627	0.79	0.2165	0.2936
	8	nan	nan	0.2165	0.2936
	9	0.3646	0.8	0.2165	0.2936
	10	0.3655	0.81	0.2165	0.2936

	test		Negative selection	0.259		14.711		SRV+Double
	test		Neutral evolution	1.0		0.761		SRV+Double
	reference		Negative selection	0.191		74.563		SRV+Double
	reference		Negative selection	0.21	<sup>0.21</sup>	24.393		SRV+Double
	reference		Neutral evolution	1.0		1.044		SRV+Double
	test		Negative selection	0.261		74.563		SRV+Double
	test		Negative selection	0.282		24.393		SRV+Double
	test		Negative selection	0.191		74.563		SRV+Double
	test		Negative selection	0.21		24.393		SRV+Double
	test		Neutral evolution	1.0		1.044		SRV+Double
	test		Neutral evolution	1.0		1.044		SRV+Double
	reference		Negative selection	0.198		76.524		SRV+Double
	reference		Negative selection	0.211		22.282		SRV+Double
	reference		Neutral evolution	1.0		1.194		SRV+Double
	test		Negative selection	0.198		76.524		SRV+Double
	test		Negative selection	0.211		22.282		SRV+Double
	test		Neutral evolution	1.0		1.194		SRV+Double
	reference		Diversifying selection	1.01		0.0		SRV+Double
	reference		Negative selection	0.113		43.393		SRV+Double
	reference		Negative selection	0.276		56.607		SRV+Double
	test		Diversifying selection	1.008		0.0		SRV+Double
	test		Diversifying selection	1.01		0.0		SRV+Double
	test		Negative selection	0.172		43.393		SRV+Double
	test		Negative selection	0.353		56.607		SRV+Double
	test		Negative selection	0.113		43.393		SRV+Double
	test		Negative selection	0.276		56.607		SRV+Double
	reference		Diversifying selection	1.19		0.0		SRV+Double
	reference		Negative selection	0.122		41.563		SRV+Double
	reference		Negative selection	0.274		58.437		SRV+Double
	test		Diversifying selection	1.19		0.0		SRV+Double
	test		Negative selection	0.122		41.563		SRV+Double
	test		Negative selection	0.274		58.437		SRV+Double
	reference		Diversifying selection	1.009		0.0		SRV+Double
	reference		Negative selection	0.125		44.901		SRV+Double
	reference		Negative selection	0.27		55.099		SRV+Double
	test		Diversifying selection	1.007		0.0		SRV+Double
	test		Diversifying selection	1.009		0.0		SRV+Double
	test		Negative selection	0.186		44.901		SRV+Double
	test		Negative selection	0.347		55.099		SRV+Double
	test		Negative selection	0.125		44.901		SRV+Double
	test		Negative selection	0.27		55.099		SRV+Double
	reference		Diversifying selection	1.003		0.0		SRV+Double
	reference		Negative selection	0.133		42.394		SRV+Double
	reference		Negative selection	0.268		57.606		SRV+Double
	test		Diversifying selection	1.003		0.0		SRV+Double
	test		Negative selection	0.133		42.394		SRV+Double
	test		Negative selection	0.268		57.606		SRV+Double
	reference		Negative selection	0.2		6.435		SRV+Double
	reference		Negative selection	0.217		93.422		SRV+Double

## SRV rate classes (all) (cols 1-6/6)

	<b>class_id</b>	<b>syn_rate</b>	<b>proportion_per cent</b>	<b>run_type</b>	
SRV	1	0.0	19.855	SRV	
	2	0.999	75.005	SRV	
	3	4.882	5.139	SRV	
	1	0.0	19.676	SRV	
	2	0.993	75.059	SRV	
	3	4.831	5.265	SRV	
	1	0.0	19.616	SRV	
	2	0.992	75.072	SRV	
	3	4.812	5.312	SRV	
SRV	1	0.0	19.931	SRV	
	2	1.001	74.975	SRV	
	3	4.901	5.095	SRV	
	1	0.0	19.786	SRV	
	2	0.996	75.008	SRV	
	3	4.853	5.206	SRV	
	1	0.0	19.686	SRV	
	2	0.993	75.023	SRV	
	3	4.82	5.291	SRV	
SRV	1	0.0	19.684	SRV	
	2	0.993	75.047	SRV	
	3	4.829	5.269	SRV	
	1	0.0	19.399	SRV	
	2	0.984	75.075	SRV	
	3	4.729	5.526	SRV	
	1	0.0	19.444	SRV	
	2	0.986	75.102	SRV	
	3	4.76	5.454	SRV	
SRV	1	0.0	19.429	SRV	
	2	0.985	75.081	SRV	
	3	4.746	5.49	SRV	

	reference		2H	0.0	SRV+Double	
	test		2H	0.032	SRV+Double	
	reference		2H	0.0	SRV+Double	
	test		2H	0.0574	SRV+Double	
	test		2H	0.0	SRV+Double	
	reference		2H	0.019	SRV+Double	
	reference		2H	0.0	SRV+Double	
	test		2H	0.0319	SRV+Double	
	reference		2H	0.0	SRV+Double	
	test		2H	0.0578	SRV+Double	
	test		2H	0.0	SRV+Double	
	reference		2H	0.0	SRV+Double+Triple	
	reference		3H	0.0	SRV+Double+Triple	
	test		2H	0.032	SRV+Double+Triple	
	test		3H	0.0	SRV+Double+Triple	
	reference		2H	0.0	SRV+Double+Triple	
	reference		3H	0.0	SRV+Double+Triple	
	test		2H	0.0589	SRV+Double+Triple	
	test		2H	0.0	SRV+Double+Triple	
	test		3H	0.0	SRV+Double+Triple	
	reference		2H	0.0	SRV+Double+Triple	
	reference		3H	0.0	SRV+Double+Triple	
	test		2H	0.0316	SRV+Double+Triple	
	test		3H	0.0	SRV+Double+Triple	
	reference		2H	0.0	SRV+Double+Triple	
	reference		3H	0.0	SRV+Double+Triple	
	test		2H	0.0591	SRV+Double+Triple	
	test		2H	0.0	SRV+Double+Triple	
	test		3H	0.0	SRV+Double+Triple	
	reference		2H	0.0	SRV+Double+Triple	
	reference		3H	0.0	SRV+Double+Triple	
	test		2H	0.0223	SRV+Double+Triple	
	test		3H	0.0	SRV+Double+Triple	
	reference		2H	0.0	SRV+Double+Triple	
	reference		3H	0.0	SRV+Double+Triple	
	test		2H	0.0569	SRV+Double+Triple	
	test		2H	0.0	SRV+Double+Triple	
	test		3H	0.0	SRV+Double+Triple	
	reference		2H	0.0	SRV+Double+Triple	
	reference		3H	0.0	SRV+Double+Triple	
	test		2H	0.0261	SRV+Double+Triple	
	test		3H	0.0	SRV+Double+Triple	
	reference		2H	0.0	SRV+Double+Triple	
	reference		3H	0.0	SRV+Double+Triple	
	test		2H	0.058	SRV+Double+Triple	
	test		2H	0.0	SRV+Double+Triple	
	test		3H	0.0	SRV+Double+Triple	
	reference		2H	0.0	SRV+Double+Triple	
	reference		3H	0.0	SRV+Double+Triple	
	test		2H	0.0312	SRV+Double+Triple	
	test		2H	0.0312	SRV+Double+Triple	