# RELAX Combined Report

SRV vs SRV+Double vs SRV+Double+Triple
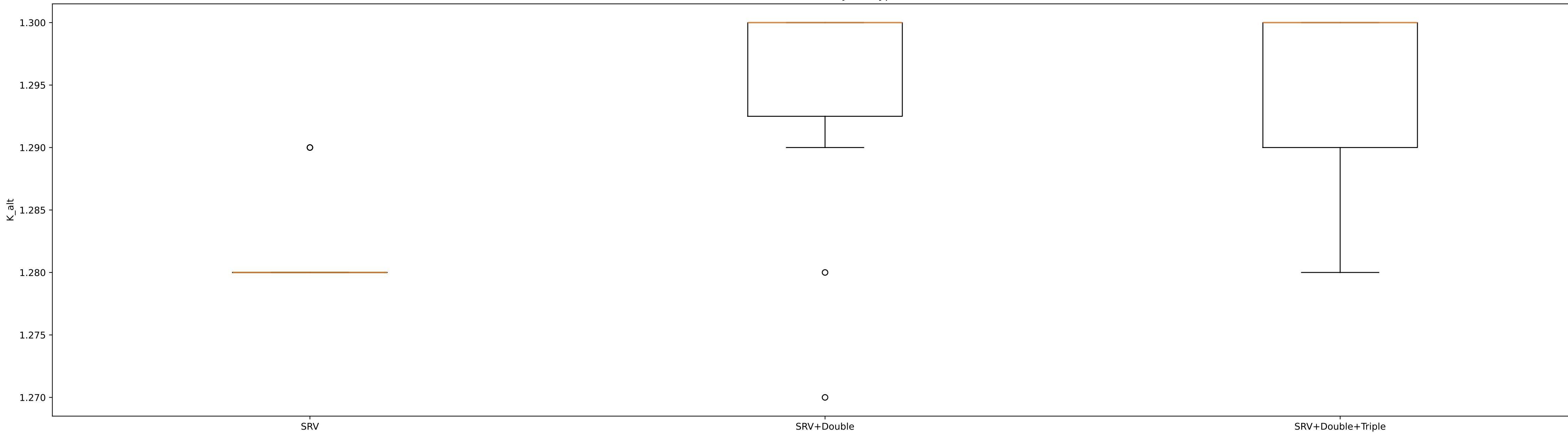
Includes:

- Run-type summary

- Boxplots: K, p-values, 2H/3H

- Full omega/SRV/multihit tables (column-paged)
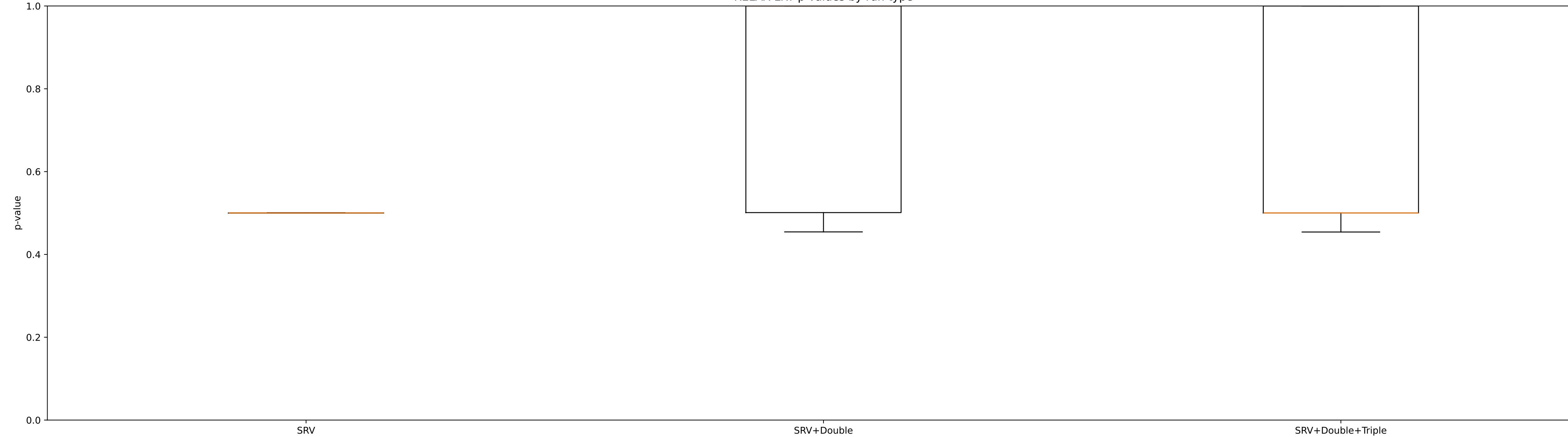
Run-type summary statistics

p_median	p_min	p_max	K_median	K_min	K_max	omega_ref_median	omega_test_median	warnings_count	2H_reference_median	2H_test_median
0.5002	0.4999	0.5007	1.28	1.28	1.29	0.2466	0.1438	10	nan	nan
1.0	0.4544	1.0	1.3	1.27	1.3	0.2466	0.1438	10	0.0	0.0
0.5002	0.4541	1.0	1.3	1.28	1.3	0.2466	0.1438	10	0.0	0.0
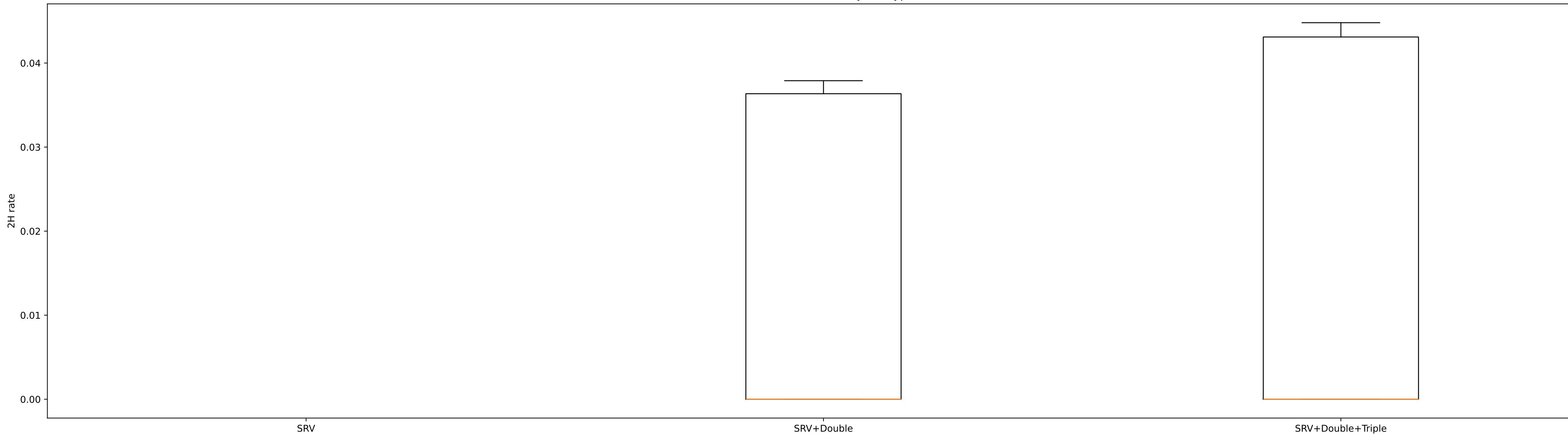
K (alternative) by run type

RELAX LRT p-values by run type

2H rates (reference) by run type
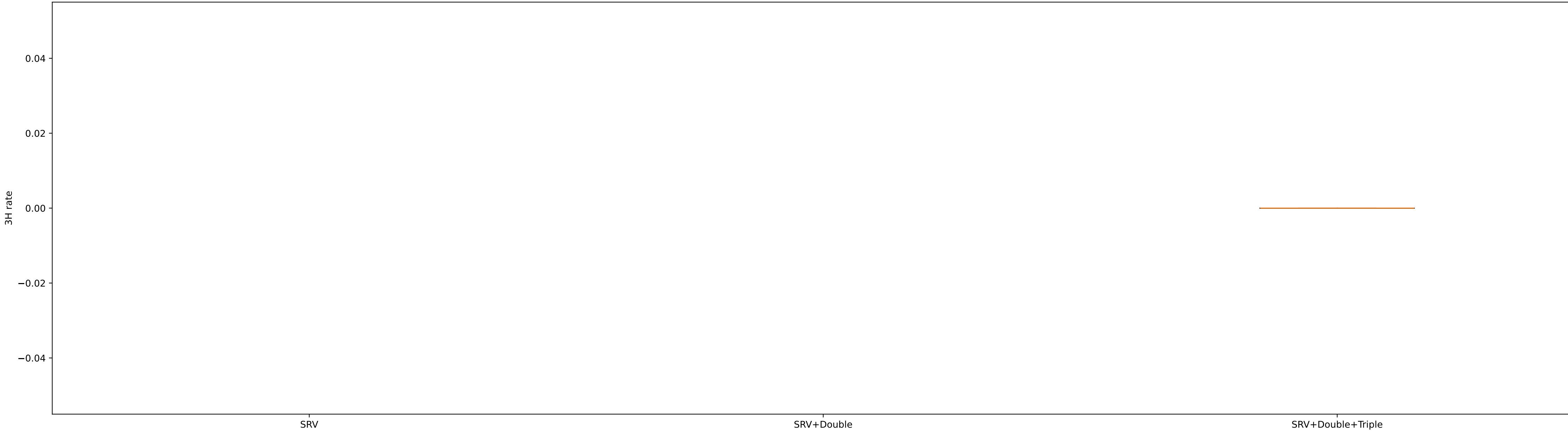
2H rates (test) by run type

SRV   SRV+Double   SRV+Double+Triple

3H rates (reference) by run type

3H rates (test) by run type

	replicate	p_value	K_alt	global_dNdS_reference	global_dNdS_test	
	1	0.4999	1.28	0.2474	0.1439	
	2	0.4999	1.28	0.2466	0.1437	
	3	0.4999	1.29	0.2476	0.1441	
	4	0.5001	1.28	0.2472	0.1439	
	5	0.5002	1.28	0.2462	0.1438	
	6	0.5007	1.28	0.2466	0.1437	
	7	0.5005	1.28	0.2466	0.1437	
	8	0.5002	1.28	0.2466	0.1439	
	9	0.5001	1.29	0.2464	0.1438	
	10	0.5004	1.28	0.2474	0.1439	

replicate	global_dNdS_test	p_value	K_alt	global_dNdS_reference	global_dNdS_test	
1		1.0	1.3	0.2466	0.1437	
2		0.4544	1.3	0.2464	0.1438	
3		1.0	1.3	0.2465	0.1438	
4		1.0	1.3	0.2464	0.1439	
5		0.5007	1.28	0.2463	0.144	
6		0.502	1.27	0.2472	0.1439	
7		1.0	1.3	0.2464	0.1439	
8		1.0	1.3	0.2467	0.1438	
9		1.0	1.3	0.2476	0.1442	
10		0.5	1.29	0.2466	0.1438	

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

replicate	p_value	K_alt	global_dNdS_reference	global_dNdS_test	
1	1.0	1.3	0.2466	0.1437	
2	1.0	1.3	0.2464	0.1439	
3	0.5002	1.29	0.2469	0.1438	
4	0.5002	1.28	0.2464	0.1439	
5	0.5002	1.29	0.2466	0.1437	
6	0.5002	1.28	0.2469	0.1437	
7	1.0	1.3	0.2466	0.1438	
8	0.4551	1.3	0.246	0.1436	
9	0.4541	1.3	0.2469	0.1437	
10	1.0	1.3	0.2464	0.1439	

test	Negative selection	0.134	62.647	SRV+Double
test	Negative selection	0.156	37.353	SRV+Double
test	Negative selection	0.213	62.647	SRV+Double
test	Negative selection	0.239	37.353	SRV+Double
reference	Diversifying selection	99.672	0.067	SRV+Double
reference	Negative selection	0.209	41.555	SRV+Double
reference	Negative selection	0.211	58.378	SRV+Double
test	Diversifying selection	99.672	0.067	SRV+Double
test	Negative selection	0.209	41.555	SRV+Double
test	Negative selection	0.211	58.378	SRV+Double
reference	Diversifying selection	111.998	0.061	SRV+Double
reference	Negative selection	0.206	15.282	SRV+Double
reference	Negative selection	0.221	84.657	SRV+Double
test	Diversifying selection	421.25	0.061	SRV+Double
test	Diversifying selection	111.998	0.061	SRV+Double
test	Negative selection	0.132	15.282	SRV+Double
test	Negative selection	0.145	84.657	SRV+Double
test	Negative selection	0.206	15.282	SRV+Double
test	Negative selection	0.221	84.657	SRV+Double
reference	Diversifying selection	99.945	0.067	SRV+Double
reference	Negative selection	0.203	12.795	SRV+Double
reference	Negative selection	0.212	87.138	SRV+Double
test	Diversifying selection	99.945	0.067	SRV+Double
test	Negative selection	0.203	12.795	SRV+Double
test	Negative selection	0.212	87.138	SRV+Double
reference	Diversifying selection	107.77	0.061	SRV+Double
reference	Negative selection	0.212	63.46	SRV+Double
reference	Negative selection	0.225	36.479	SRV+Double
test	Diversifying selection	387.525	0.061	SRV+Double
test	Diversifying selection	107.77	0.061	SRV+Double
test	Negative selection	0.139	63.46	SRV+Double
test	Negative selection	0.15	36.479	SRV+Double
test	Negative selection	0.212	63.46	SRV+Double
test	Negative selection	0.225	36.479	SRV+Double
reference	Diversifying selection	101.315	0.067	SRV+Double
reference	Negative selection	0.21	69.128	SRV+Double
reference	Negative selection	0.212	30.805	SRV+Double
test	Diversifying selection	101.315	0.067	SRV+Double
test	Negative selection	0.21	69.128	SRV+Double
test	Negative selection	0.212	30.805	SRV+Double
reference	Diversifying selection	2.322	0.0	SRV+Double
reference	Negative selection	0.208	31.255	SRV+Double
reference	Negative selection	0.229	68.745	SRV+Double
test	Diversifying selection	2.98	0.0	SRV+Double
test	Diversifying selection	2.322	0.0	SRV+Double
test	Negative selection	0.131	31.255	SRV+Double
test	Negative selection	0.148	68.745	SRV+Double
test	Negative selection	0.208	31.255	SRV+Double
test	Negative selection	0.229	68.745	SRV+Double
reference	Diversifying selection	99.077	0.067	SRV+Double

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	class_id	syn_rate	proportion_percent	run_type	
	1	0.024	37.492	SRV	
	2	0.024	26.763	SRV	
	3	2.755	35.745	SRV	
	1	0.023	30.639	SRV	
	2	0.024	33.594	SRV	
	3	2.754	35.767	SRV	
	1	0.023	30.088	SRV	
	2	0.024	34.136	SRV	
	3	2.753	35.776	SRV	
	1	0.024	28.869	SRV	
	2	0.024	35.377	SRV	
	3	2.754	35.754	SRV	
	1	0.024	31.374	SRV	
	2	0.024	32.921	SRV	
	3	2.757	35.705	SRV	
	1	0.024	37.09	SRV	
	2	0.024	27.174	SRV	
	3	2.755	35.735	SRV	
	1	0.024	28.927	SRV	
	2	0.024	35.324	SRV	
	3	2.755	35.748	SRV	
	1	0.024	36.725	SRV	
	2	0.024	27.55	SRV	
	3	2.756	35.725	SRV	
	1	0.023	28.581	SRV	
	2	0.024	35.653	SRV	
	3	2.754	35.766	SRV	
	1	0.024	27.966	SRV	
	2	0.024	36.313	SRV	
	3	2.756	35.721	SRV	

	reference	2H	0.0367	SRV+Double	
	reference	2H	0.0	SRV+Double	
	test	2H	0.0	SRV+Double	
	reference	2H	0.0	SRV+Double	
	test	2H	0.0	SRV+Double	
	reference	2H	0.0443	SRV+Double+Triple	
	reference	2H	0.0	SRV+Double+Triple	
	reference	3H	0.0	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	0.0	SRV+Double+Triple	
	test	3H	0.0	SRV+Double+Triple	
	reference	2H	0.0445	SRV+Double+Triple	
	reference	2H	0.0	SRV+Double+Triple	
	reference	3H	0.0	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	0.0	SRV+Double+Triple	
	test	3H	0.0	SRV+Double+Triple	
	reference	2H	0.0425	SRV+Double+Triple	
	reference	2H	0.0	SRV+Double+Triple	
	reference	3H	0.0	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	0.0	SRV+Double+Triple	
	test	3H	0.0	SRV+Double+Triple	
	reference	2H	0.0443	SRV+Double+Triple	
	reference	2H	0.0	SRV+Double+Triple	
	reference	3H	0.0	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	0.0	SRV+Double+Triple	
	test	3H	0.0	SRV+Double+Triple	
	reference	2H	0.0448	SRV+Double+Triple	
	reference	2H	0.0	SRV+Double+Triple	
	reference	3H	0.0	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	0.0	SRV+Double+Triple	
	test	3H		SRV+Double+Triple	