RELAX Combined Report

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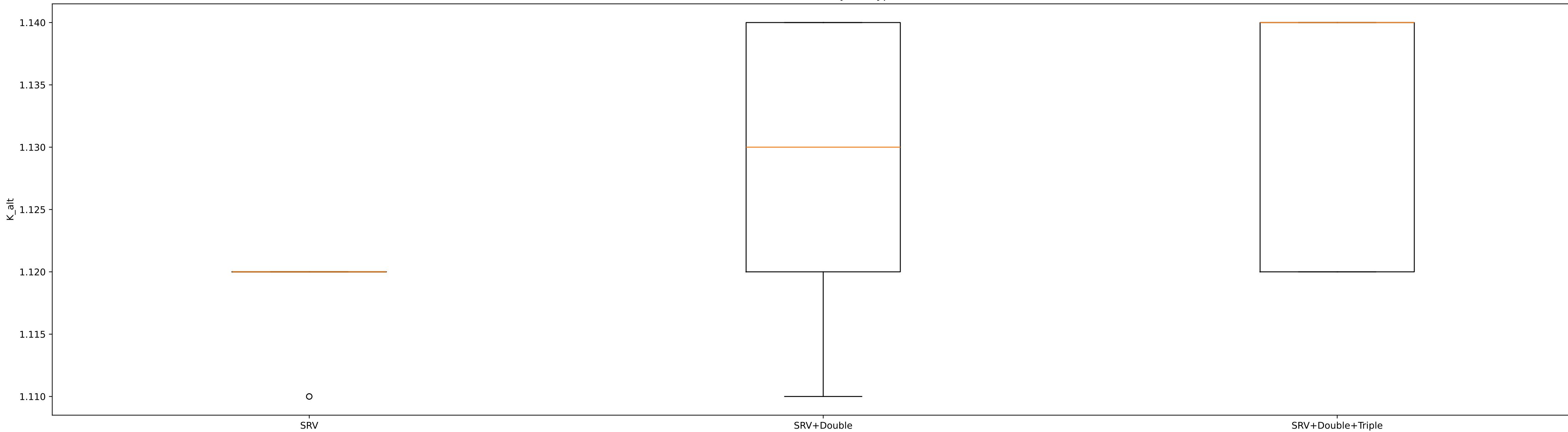
Includes:

- Run-type summary

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

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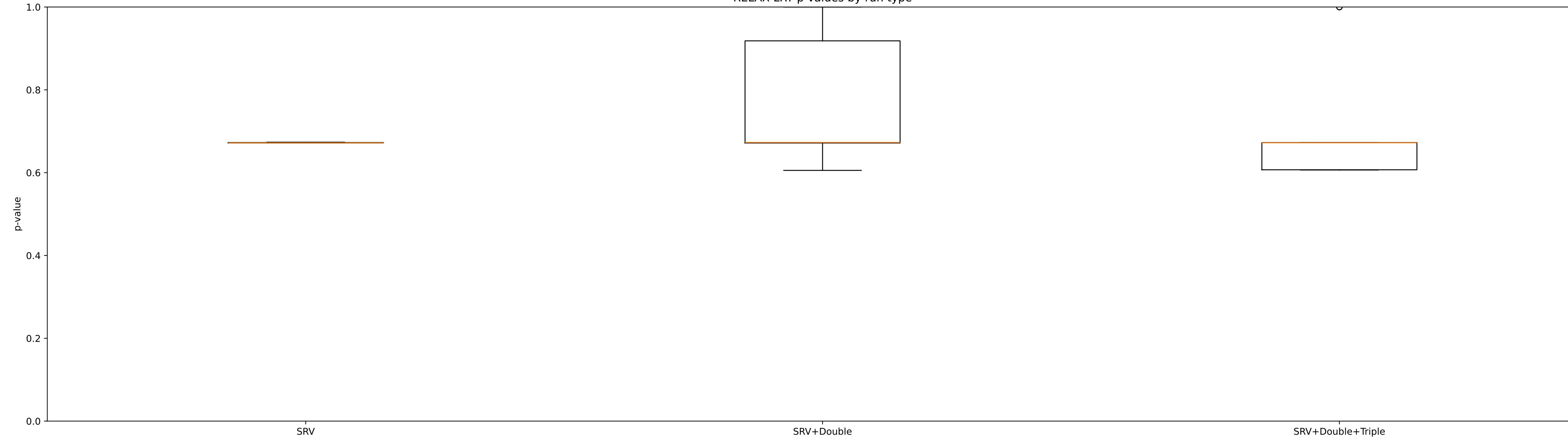
Run-type summary statistics

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
0.672	0.6717	0.6735	1.12	1.11	1.12	0.2494	0.1851	10	nan	nan
0.6729	0.6055	1.0	1.13	1.11	1.14	0.2491	0.1851	10	0.0	0.0
0.6721	0.6064	1.0	1.14	1.12	1.14	0.2492	0.1851	10	0.029	0.0
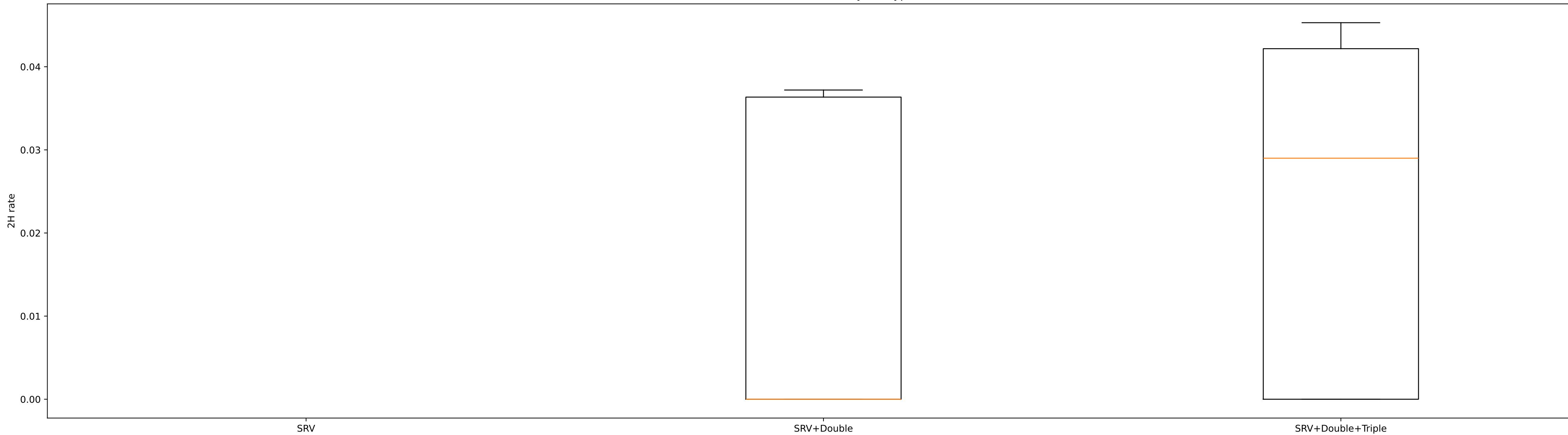
K (alternative) by run type

3

RELAX LRT p-values by run type

p-value

SRV

SRV+Double

SRV+Double+Triple

4

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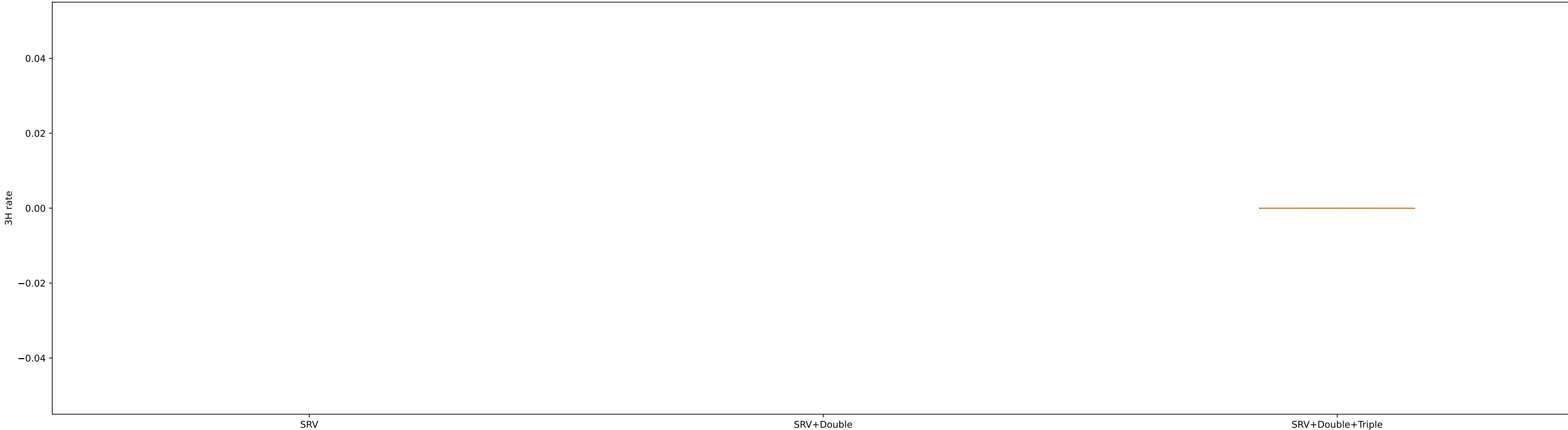
2H rates (test) by run type

3H rates (reference) by run type

3H rate

0.04

0.02

0.00

−0.02

−0.04

SRV   SRV+Double   SRV+Double+Triple

3H rates (test) by run type

SRV   SRV+Double   SRV+Double+Triple

replicate	p_value	K_alt	global_dNdS_reference	global_dNdS_test	
1	0.6735	1.11	0.2495	0.185	
2	0.6728	1.12	0.2493	0.1853	
3	0.6717	1.12	0.2494	0.1851	
4	0.6729	1.12	0.2491	0.1851	
5	0.6718	1.12	0.2495	0.1851	
6	0.6722	1.12	0.2492	0.1851	
7	0.6725	1.12	0.2497	0.1855	
8	0.6717	1.12	0.2491	0.185	
9	0.6717	1.12	0.2496	0.185	
10	0.6719	1.12	0.2493	0.1854	

replicate	global_dNdS_test	p_value	K_alt	global_dNdS_reference	global_dNdS_test	
1	0.1855	1.0	1.14	0.2497	0.1855	
2		0.6055	1.14	0.2486	0.185	
3		1.0	1.14	0.2488	0.1851	
4		0.6722	1.12	0.2491	0.1851	
5		0.6727	1.11	0.2497	0.1855	
6		0.6074	1.14	0.2491	0.1851	
7		0.6732	1.12	0.2487	0.1852	
8	0.1854	0.6714	1.11	0.2494	0.1854	
9	0.185	1.0	1.14	0.2494	0.185	
10		0.6731	1.12	0.2489	0.185	

	replicate	p_value	K_alt	global_dNdS_reference	global_dNdS_test	
	1	0.6067	1.14	0.2489	0.1853	
	2	0.6067	1.14	0.248	0.1842	
	3	1.0	1.14	0.2497	0.1855	
	4	0.6723	1.12	0.2489	0.1851	
	5	0.6726	1.12	0.2492	0.1852	
	6	0.6064	1.14	0.2485	0.185	
	7	1.0	1.14	0.2493	0.1851	
	8	0.6076	1.14	0.2491	0.1851	
	9	0.6719	1.12	0.2493	0.185	
	10	0.6725	1.12	0.2498	0.1854	

test	Negative selection	0.179	71.08	SRV+Double
test	Negative selection	0.189	28.857	SRV+Double
test	Negative selection	0.214	71.08	SRV+Double
test	Negative selection	0.225	28.857	SRV+Double
reference	Diversifying selection		0.067	SRV+Double
reference	Negative selection	0.207	30.853	SRV+Double
reference	Negative selection	0.213	69.08	SRV+Double
test	Diversifying selection	101.337	0.067	SRV+Double
test	Negative selection	0.207	30.853	SRV+Double
test	Negative selection	0.213	69.08	SRV+Double
reference	Diversifying selection	105.235	0.063	SRV+Double
reference	Negative selection	0.215	88.632	SRV+Double
reference	Negative selection	0.23	11.305	SRV+Double
test	Diversifying selection	178.538	0.063	SRV+Double
test	Diversifying selection	105.235	0.063	SRV+Double
test	Negative selection	0.181	88.632	SRV+Double
test	Negative selection	0.195	11.305	SRV+Double
test	Negative selection	0.215	88.632	SRV+Double
test	Negative selection	0.23	11.305	SRV+Double
reference	Diversifying selection	99.388	0.067	SRV+Double
reference	Negative selection	0.207	11.639	SRV+Double
reference	Negative selection	0.211	88.294	SRV+Double
test	Diversifying selection	99.388	0.067	SRV+Double
test	Negative selection	0.207	11.639	SRV+Double
test	Negative selection	0.211	88.294	SRV+Double
reference	Diversifying selection	1.931	0.0	SRV+Double
reference	Negative selection	0.216	59.131	SRV+Double
reference	Negative selection	0.234	40.869	SRV+Double
test	Diversifying selection	2.118	0.0	SRV+Double
test	Diversifying selection	1.931	0.0	SRV+Double
test	Negative selection	0.174	59.131	SRV+Double
test	Negative selection	0.191	40.869	SRV+Double
test	Negative selection	0.216	59.131	SRV+Double
test	Negative selection	0.234	40.869	SRV+Double
reference	Diversifying selection	3.982	0.0	SRV+Double
reference	Negative selection	0.214	84.111	SRV+Double
reference	Negative selection	0.222	15.889	SRV+Double
test	Diversifying selection	3.982	0.0	SRV+Double
test	Negative selection	0.214	84.111	SRV+Double
test	Negative selection	0.222	15.889	SRV+Double
reference	Diversifying selection	105.59	0.063	SRV+Double
reference	Negative selection	0.213	11.377	SRV+Double
reference	Negative selection	0.219	88.56	SRV+Double
test	Diversifying selection	185.725	0.063	SRV+Double
test	Diversifying selection	105.59	0.063	SRV+Double
test	Negative selection	0.176	11.377	SRV+Double
test	Negative selection	0.183	88.56	SRV+Double
test	Negative selection	0.213	11.377	SRV+Double
test	Negative selection	0.219	88.56	SRV+Double
reference	Diversifying selection	100.586	0.067	SRV+Double

	class_id	syn_rate	proportion_percent	run_type	
	1	0.024	33.684	SRV	
	2	0.024	30.591	SRV	
	3	2.756	35.725	SRV	
	1	0.023	32.121	SRV	
	2	0.024	32.122	SRV	
	3	2.754	35.757	SRV	
	1	0.023	33.778	SRV	
	2	0.024	30.449	SRV	
	3	2.753	35.773	SRV	
	1	0.024	35.199	SRV	
	2	0.024	29.07	SRV	
	3	2.756	35.731	SRV	
	1	0.024	30.217	SRV	
	2	0.024	34.062	SRV	
	3	2.756	35.72	SRV	
	1	0.024	35.356	SRV	
	2	0.024	28.901	SRV	
	3	2.755	35.743	SRV	
	1	0.024	33.004	SRV	
	2	0.024	31.283	SRV	
	3	2.757	35.712	SRV	
	1	0.024	34.216	SRV	
	2	0.024	30.04	SRV	
	3	2.755	35.744	SRV	
	1	0.024	33.737	SRV	
	2	0.024	30.515	SRV	
	3	2.755	35.749	SRV	
	1	0.023	32.71	SRV	
	2	0.024	31.537	SRV	
	3	2.754	35.752	SRV	

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	0.0448	SRV+Double+Triple
reference	2H	0.029	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	0.0306	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	0.0447	SRV+Double+Triple
reference	2H	0.0291	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	0.0305	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	0.0422	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	0.0444	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