



UK-25	H G C T C G G H C H C C G T A C C A	ID42.4	IIIA150.3	C G - G H C G C C T H C G C H H H H G C A + C G C T C G G A G C G T C H G
UK-26	C G C T C G G A C C C C G T A C C A	ID40.2	ID43.9	C G - G A C G C C T C C G C C C C G G G C A + C G C T C G H A G C G T C H G
UK-27	H G C T C G G H C H C C G T A C C A	IC31.2	IIIA150.12	C G - G H C G C C T H C G C H H H H G C H H H G H T C G G A G C G T C H G
UK-28	T G C T C G G H C H C C G T A C C A	IC32.6	IIIA149.16	C G - G H C G C C T H C G C H H H H G C H H H G H T C G G A G C G T C G G
UK-29	T G C T C G G C C T C C G T A C C A	IIIA143.4	IIIA150.3	C G - G T C G C C T G C G C T A T T A G C A + C G C T C G G A G C G T C G G
UK-30	H G C T C G G A C C C C G T A C C A	IC30.2	ID44.1	C G - G A C G C C T C C G C C C C G G G C H H H G H T H G G A G C G T C H G
UK-31	H G C T C G G H C H C C G T A C C A	ID41.2	IIIA146.9	C G - G H C G C C T H C G C H H H H G C A + C G C T C G G A G C G T C H G
UK-32	T G C T C G G H C H C C G T A C C A	IC34.1	IIIA149.17	C G - G H C G C C T H C G C H H H H G C H H H G H T C G G A G C G T C G G
UK-33	H G C T C G G A C C C C G T A C C A	IC30.2	ID44.1	C G - G A C G C C T C C G C C C C G G G C H H H G H T H G G A G C G T C H G
UK-34	H G C T C G G A C C C C G T A C C A	IC31.2	ID39.4	C G - G A C G C C T C C G C C C C G G G C H H H G H T C G H A G C G T C G G
UK-35	H G C T C G G H C H C C G T A C C A	ID40.2	IIIA150.13	C G - G H C G C C T H C G C H H H H G C H H H G H T C G G A G C G T C G G
UK-36	T G C T C G G A C C C C G T A C C A	IC31.2	ID42.4	C G - G A C G C C T C C G C C C C G G G C H H H G H T C G G A G C G T C H G
UK-37	C G C T C G G A C C C C G T A C C A	ID41.5	ID44.1	C G - G A C G C C T C C G C C C C G G G C A + C G C T C G G A G C G T C H G
UK-38	H G C T C G G H C H C C G T A C C A	ID40.2	IIIA150.5	C G - G H C G C C T H C G C H H H H H G C A + C G C T C G G A G C G T C G G
UK-39	T G C T C G G H C H C C G T A C C A	IC37.1	IIIA149.18	C G - G H C G C C T H C G C H H H H H G C H H H G H T C G G A G C G T C G G
UK-40	C G C T C G G H C C C C G T A C C A	ID42.4	IIIB141.1	C G - G H C G C C T C H G C C H C G G G C H H H H H T C G G A G C G T C H G
UK-41	T G C T C G G A C C C C G T A C C A	IC36.2	ID42.4	C G - G A C G C C T C C G C C C C G G G C H H H G H T C G G A G C G T C H G
UK-42	C G C T C G G A C C C C G T A C C A	ID38.5	ID41.7	C G - G A C G C C T C C G C C C C G G G C A + C G C T C G H A G C G T C H G
UK-43	T G C T C G G A C C C C G T A C C A	IC35.1	ID42.4	C G - G A C G C C T C C G C C C C G G G C H H H G H T C G G A G C G T C H G
UK-44	T G C T C G G H C H C C G T A C C A	IC31.2	IIIA149.2	C G - G H C G C C T H C G C H H H H H G C H H H G H T C G G A G C G T C G G
UK-45	C G C T C G G A C C C C G T A C C A	ID39.4	ID44.1	C G - G A C G C C T C C G C C C C G G G C A + C G C T H G H A G C G T C H G
UK-46	T G C T C G G H C H C C G T A C C A	ID42.4	IIIA177.1	C G - G H C G C C T H C G C H H H H H G C A + C G C T C G G A G C G T C H G
UK-47	H G C T C G G H C H C C G T A C C A	ID40.10	IIIA149.19	C G - G H C G C C T H C G C H H H H H G C A + C G C T C G G A G C G T C G G
UK-48	T G C T C G G A C C C C G T A C C A	IC35.4	ID41.3	C G - G A C G C C T C C G C C C C G G G C H H H G H T C G G A G C G T C H G
UK-49	H G C T C G G A C C C C G T A C C A	ID42.4	ID43.5	C G - G A C G C C T C C G C C C C G G G C A + C G C T C G G A G C G T C A G
UK-50	T G C T C G G H C H C C G T A C C A	IC33.4	IIIA152.2	C G - G H C G C C T H C G C H H H H H G C H H H G H T C G G A G C G T C G G
UK-51	T G C T C G G H C H C C G T A C C A	IC30.3	IIIA157.3	C G - G H C G C C T H C G C H H H H H G C H H H G H T C G G A G C G T C G G
UK-52	H G C T C G G H C H C C G T A C C A	ID44.1	IIIA149.2	C G - G H C G C C T H C G C H H H H H G C A + C G C T C G G A G C G T C H G
UK-53	H G C T C G G H C H C C G T A C C A	IC38.2	IIIA146.1	C G - G H C G C C T H C G C H H H H H G C H H H G H T C G G A G C G T C G G
UK-54	H G C T C G G A C C C C G T A C C A	IC32.6	ID44.1	C G - G A C G C C T C C G C C C C G G G C H H H G H T C G G A G C G T C H G
UK-55	T G C T C G G A C C C C G T A C C A	IC32.8	ID42.4	C G - G A C G C C T C C G C C C C G G G C A + C G C T C G G A G C G T C A G
UK-56	H G C T C G G A C C C C G T A C C A	ID42.4	ID42.4	C G - G A C G C C T C C G C C C C G G G C A + C G C T C G G A G C G T C A G
UK-57	H G C T C G G A C C C C G T A C C A	IC31.7	ID42.4	C G - G A C G C C T C C G C C C C G G G C H H H G H T C G G A G C G T C H G
UK-58	H G C T C G G H C H C C G T A C C A	ID39.1	IIIA158.4	C G - G H C G C C T H C G C H H H H H G C A + C G C T C G H A G C G T C G G
UK-59	C G C T C G G H C C C C G T A C C A	ID39.1	IIIB144.1	C G - G H C G C C T C H G C C H C G G G C H H H H H T C G H A G C G T C G G
UK-60	C G C T C G G A C C C C G T A C C A	ID40.2	ID40.1	C G - G A C G C C T C C G C C C C G G G C A + C G C T C G H A G C G T C H G
UK-61	T G C T C G G A C C C C G T A C C A	IC32.6	ID42.4	C G - G A C G C C T C C G C C C C G G G C H H H G H T C G G A G C G T C H G
UK-62	H G C T C G G A C C C C G T A C C A	IC32.1	ID43.5	C G - G A C G C C T C C G C C C C G G G C H H H G H T C G G A G C G T C H G
UK-63	T G C T C G G A C C C C G T A C C A	IC37.6	ID42.4	C G - G A C G C C T C C G C C C C G G G C H H H G H T C G G A G C G T C H G
UK-64	H G C T C G G H C H C C G T A C C A	ID40.2	IIIA144.4	C G - G H C G C C T H C G C H H H H H G C A + C G C T C G G A G C G T C G G
UK-65	C G C T C G G H C C C C G T A C C A	ID44.1	IIIB144.3	C G - G H C G C C T C H G C C H C G G G C H H H H H T H G G A G C G T C H G
UK-66	H G C T C G G H C C C C G T A C C A	IC33.5	ID43.9	C G - G A C G C C T C C G C C C C G G G C H H H G H T C G G A G C G T C H G
UK-67	H G C T C G G A C C C C G T A C C A	ID39.4	ID42.4	C G - G A C G C C T C C G C C C C G G G C A + C G C T C G H A G C G T C H G
UK-68	C G C T C G G A C C C C G T A C C A	ID40.2	ID44.1	C G - G A C G C C T C C G C C C C G G G C A + C G C T C G H A G C G T C H G
UK-69	H G C T C G G A C C C C G T A C C A	IC35.1	ID41.5	C G - G A C G C C T C C G C C C C G G G C H H H G H T C G G A G C G T C G G

UK-70	T G C T C G G A C C C C G T A C C A	IC31.2	IC32.12	C G - G A C G C C T C C G C C C C G G G C T - G G A T C G G A G C G T C G G
UK-71	T G C T C G G A C C C C G T A C C A	IC33.3	ID42.4	C G - G A C G C C T C C G C C C C G G G C H H H G H T C G G A G C G T C H G
UK-72	T G C T C G G A C C C C G T A C C A	IC35.4	ID42.4	C G - G A C G C C T C C G C C C C G G G C H H H G H T C G G A G C G T C H G
UK-73	H G C T C G G H C H C C G T A C C A	ID40.2	IIIA149.20	C G - G H C G C C T H C G C H H H H G C A + C G C T C G G A G C G T C G G
UK-74	H G C T C G G A C C C C G T A C C A	ID42.4	ID42.4	C G - G A C G C C T C C G C C C C G G G C A + C G C T C G G A G C G T C A G
UK-75	H G C T C G G H C H C C G T A C C A	ID42.6	IIIA151.2	C G - G H C G C C T H C G C H H H H G C A + C G C T C G G A G C G T C H G
UK-76	T G C T C G G H C H C C G T A C C A	IC32.6	IIIA132.1	C G - G H C G C C T H C G C H H H H G C H H H G H T C G G A G C G T C G G
UK-77	H G C T C G G A C C C C G T A C C A	ID39.4	IIIA158.4	C G - G H C G C C T H C G C H H H H G C A + C G C T C G H A G C G T C G G
UK-78	T G C T C G G A C C C C G T A C C A	IC31.2	IC34.9	C G - G A C G C C T C C G C C C C G G G C T - G G A T C G G A G C G T C G G
UK-79	T G C T C G G H C H C C G T A C C A	IC34.2	IIIA153.1	C G - G H C G C C T H C G C H H H H G C H H H G H T C G G A G C G T C G G
UK-80	H G C T C G G A C C C C G T A C C A	ID42.4	ID44.1	C G - G A C G C C T C C G C C C C G G G C A + C G C T C G G A G C G T C A G
UK-81	H G C T C G G H C H C C G T A C C A	ID44.1	IIIA151.2	C G - G H C G C C T H C G C H H H H G C A + C G C T C G G A G C G T C H G
UK-82	C G C T C G G A C C C C G T A C C A	ID41.5	ID42.7	C G - G A C G C C T C C G C C C C G G G C A + C G C T H G G A G C G T C H G
UK-83	H G C T C G G H C H C C G T A C C A	ID44.1	IIIA150.5	C G - G H C G C C T H C G C H H H H G C A + C G C T H G G A G C G T C H G
UK-84	H G C T C G G A C C C C G T A C C A	IC35.4	ID41.2	C G - G A C G C C T C C G C C C C G G G C H H H G H T C G G A G C G T C H G
UK-85	T G C T C G G C C H C C G T A C C A	IIIA139.1	IIIA150.6	C G - G T C G C C T G C G C T A T T A G C A + C G C T C G G A G C G T C G G
UK-87	T G C T C G G C C H C C G T A C C A	IIIB144.1	IIIA150.3	C G - G T C G C C T H H G C H A H H H G C H H H H T C G G A G C G T C G G
UK-88	H G C T C G G A C C C C G T A C C A	ID39.4	ID40.11	C G - G A C G C C T C C G C C C C G G G C A + C G C T C G H A G C G T C H G
UK-89	T G C T C G G H C H C C G T A C C A	ID42.4	IIIA145.5	C G - G H C G C C T H C G C H H H H G C A + C G C T C G G A G C G T C H G
UK-90	C G C T C G G H C C C C G T A C C A	ID43.5	IIIB110.1	C G - G H C G C C T C H G C C H C G G G C H H H H H T C G G A G C G T C H G
UK-91	C G C T C G G A C C C C G T A C C A	ID40.2	ID44.1	C G - G A C G C C T C C G C C C C G G G C A + C G C T C G H A G C G T C H G
UK-92	H G C T C G G H C H C C G T A C C A	ID43.11	IIIA146.7	C G - G H C G C C T H C G C H H H H G C A + C G C T H G G A G C G T C H G
UK-93	T G C T C G G A C C C C G T A C C A	IC31.5	IC32.12	C G - G A C G C C T C C G C C C C G G G C T - G G A T C G G A G C G T C G G
UK-94	C G C T C G G A C C C C G T A C C A	ID42.8	ID43.9	C G - G A C G C C T C C G C C C C G G G C A + C G C T H G G A G C G T C A G
UK-95	T G C T C G G H C H C C G T A C C A	IC33.4	IIIA152.2	C G - G H C G C C T H C G C H H H H G C H H H G H T C G G A G C G T C G G
UK-96	H G C T C G G H C H C C G T A C C A	ID39.6	IIIA147.10	C G - G H C G C C T H C G C H H H H G C A + C G C T C G H A G C G T C G G
UK-97	H G C T C G G A C C C C G T A C C A	IC31.5	ID43.9	C G - G A C G C C T C C G C C C C G G G C H H H G H T C G G A G C G T C H G
UK-98	H G C T C G G C C H C C G T A C C A	ID43.9	IIIA148.18	C G - G H C G C C T H C G C H H H H G C A + C G C T C G G A G C G T C H G
UK-99	C G C T C G G H C C C C G T A C C A	ID40.2	IIIB142.3	C G - G H C G C C T C H G C C H C G G G C H H H H H T C G H A G C G T C G G
UK-100	H G C T C G G A C C C C G T A C C A	IC32.6	ID40.2	C G - G A C G C C T C C G C C C C G G G C H H H G H T C G H A G C G T C G G
UK-101	T G C T C G G H C H C C G T A C C A	IC30.1	IIIA159.2	C G - G H C G C C T H C G C H H H H G C H H H G H T C G G A G C G T C G G
UK-102	C G C T C G G A C C C C G T A C C A	ID40.2	ID44.1	C G - G A C G C C T C C G C C C C G G G C A + C G C T C G G A G C G T C H G
UK-103	H G C T C G G C C H C C G T A C C A	IIIB144.1	IIIA147.2	C G - G T C G C C T H H G C H A H H H G C H H H H H T C G G A G C G T C G G
KZ-1	H G C T C G G H C H C C G T A C C A	ID40.6	IIIA150.14	C G - G H C G C C T H C G C H H H H G C A + C G C T C G G A G C G T C G G
KZ-2	T G C T C G G A C C C C G T A C C A	IC33.9	IC34.2	C G - G A C G C C T C C G C C C C G G G C T - G G A T C G G A G C G T C G G
KZ-3	H G C T C G G C C H C C G T A C C A	IIIB145.1	IIIA149.15	C G - G T C G C C T H H G C H A H H H G C H H H H H T C G G A G C G T C G G
KZ-4	H G C T C G G A C C C C G T A C C A	IC32.11	ID40.5	C G - G A C G C C T C C G C C C C G G G C H H H G H T C G G A G C G T C H G
KZ-5	H G C T C G G A C C C C G T A C C A	IC33.1	ID40.4	C G - G A C G C C T C C G C C C C G G G C H H H G H T C G G A G C G T C G G
KZ-6	T G C T C G G H C H C C G T A C C A	IC33.7	IIIA147.11	C G - G H C G C C T H C G C H H H H G C H H H G H T C G G A G C G T C G G
KZ-7	T G C T C G G A C C C C G T A C C A	IC32.11	ID42.4	C G - G A C G C C T C C G C C C C G G G C H H H G H T C G G A G C G T C H G
KZ-8	C G C T C G G H C C C C G T A C C A	ID40.5	IIIB145.5	C G - G H C G C C T C H G C C H C G G G C A + C G C T C G G A G C G T C H G
KZ-9	H G C T C G G A C C C C G T A C C A	IC36.2	ID41.5	C G - G A C G C C T C C G C C C C G G G C H H H G H T C G G A G C G T C G G
KZ-11	H G C T C G G H C H C C G T A C C A	ID44.1	IIIA147.7	C G - G H C G C C T H C G C H H H H G C A + C G C T C G G A G C G T C H G
KZ-12	C G C T C G G A C C C C G T A C C A	IC38.3	ID40.5	C G - G A H G C C T C C G C C C C G G G C H H H G H T C G G A G C G T C H G
KZ-13	H G C T C G G A C C C C G T A C C A	IC33.8	ID44.1	C G - G A C G C C T C C G C C C C G G G C H H H G H T C G G A G C G T C H G



J-433	H G C T C G G A C C C C G T A C C A	IC26.1	ID40.9	C G - G A C G C C T C C G C C C C G G G C H H H G H T C G G A G C G T C G G
J-434	H G C T C G G A C C C C G T A C C A	IC31.11	ID41.5	C G - G A C G C C T C C G C C C C G G G C H H H G H T C G G A G C G T C G G
J-435	H G C T C G G A C C C C G T A C C A	IC30.9	ID44.1	C G - G A C G C C T C C G C C C C G G G C H H H G H T C G G A G C G T C H G
J-436	H G C T C G G A C C C C G T A C C A	IC29.1	ID41.5	C G - G A C G C C T C C G C C C C G G G C H H H G H T C G G A G C G T C G G
J-437	C G C T C G G A C C C C G T A C C A	ID43.9	IIIA151.2	C G - G H C G C C T H C G C H H H H G C A + C G C T C G G A G C G T C H G
J-438	C G C T C G G A C C C C G T A C C A	ID41.5	ID41.5	C G - G A C G C C T C C G C C C C G G G C A + C G C T C G G A G C G T C G G
J-439	H G C T C G G A C C C C G T A C C A	IC29.1	ID42.4	C G - G A C G C C T C C G C C C C G G G C H H H G H T C G G A G C G T C H G
J-440	H G C T C G G A C C C C G T A C C A	IC30.3	ID43.6	C G - G A C G C C T C C G C C C C G G G C H H H G H T C G G A G C G T C G G
J-441	C G C T C G G A C C C C G T A C C A	ID40.7	ID44.1	C G - G A C G C C T C C G C C C C G G G C A + C G C T C G G A G C G T C H G
J-442	H G C T C G G A C C C C G T A C C A	IC33.1	IIIA150.11	C G - G H C G C C T H C G C H H H H G C H H H G H T C G G A G C G T C G G
J-443	H G C T C G G A C C C C G T A C C A	IC33.1	ID41.5	C G - G A C G C C T C C G C C C C G G G C H H H G H T C G G A G C G T C G G
J-444	T G C T C G G A C C C C G T A C C A	IC32.2	IC34.1	C G - G A C G C C T C C G C C C C G G G C T - G G A T C G G A G C G T C G G
J-445	C G C T C G G A C C C C G T A C C A	ID41.5	ID44.1	C G - G A C G C C T C C G C C C C G G G C A + C G C T C G G A G C G T C H G
J-446	C G C T C G G A C C C C G T A C C A	ID41.5	ID44.1	C G - G A C G C C T C C G C C C C G G G C A + C G C T C G G A G C G T C H G
J-447	C G C T C G G A C C C C G T A C C A	ID40.2	ID40.7	C G - G A C G C C T C C G C C C C G G G C A + C G C T C G G A G C G T C G G
J-448	C G C T C G G A C C C C G T A C C A	ID41.5	ID41.5	C G - G A C G C C T C C G C C C C G G G C A + C G C T C G G A G C G T C G G
J-449	T G C T C G G A C C C C G T A C C A	IC33.1	IC37.7	C G - G A C G C C T C C G C C C C G G G C T - G G A T C G G A G C G T C G G
J-450	T G C T C G G A C C C C G T A C C A	IC32.2	IC33.1	C G - G A C G C C T C C G C C C C G G G C T - G G A T C G G A G C G T C G G
J-451	C G C T C G G A C C C C G T A C C A	ID41.5	ID44.1	C G - G A C G C C T C C G C C C C G G G C A + C G C T C G G A G C G T C G G
J-452	C G C T C G G A C C C C G T A C C A	ID41.5	ID44.1	C G - G A C G C C T C C G C C C C G G G C A + C G C T C G G A G C G T C H G
J-453	C G C T C G G A C C C C G T A C C A	ID40.7	ID43.9	C G - G A C G C C T C C G C C C C G G G C A + C G C T C G G A G C G T C H G
J-454	C G C T C G G A C C C C G T A C C A	ID43.9	ID44.1	C G - G A C G C C T C C G C C C C G G G C A + C G C T C G G A G C G T C A G
J-455	T G C T C G G A C C C C G T A C C A	IC33.2	IC36.2	C G - G A C G C C T C C G C C C C G G G C T - G G A T C G G A G C G T C G G
J-456	H G C T C G G H C H C C G T A C C A	ID40.5	IIIA151.4	C G - G H C G C C T H C G C H H H H G C A + C G C T C G G A G C G T C G G
J-457	H G C T C G G A C C C C G T A C C A	IC34.1	ID44.1	C G - G A C G C C T C C G C C C C G G G C H H H G H T C G G A G C G T C H G
J-458	H G C T C G G A C C C C G T A C C A	IC31.4	ID41.5	C G - G A C G C C T C C G C C C C G G G C H H H G H T C G G A G C G T C G G
J-459	C G C T C G G A C C C C G T A C C A	ID40.8	ID40.2	C G - G A C G C C T C C G C C C C G G G C A + C G C T C G G A G C G T C G G
J-461	C G C T C G G A C C C C G T A C C A	ID43.9	IIIA150.6	C G - G H C G C C T H C G C H H H H G C A + C G C T C G G A G C G T C H G
J-471	C G C T C G G A C C C C G T A C C A	ID41.6	ID41.5	C G - G A C G C C T C C G C C C C G G G C A + C G C T C G G A G C G T C H G
J-476	T G C T C G G A C C C C G T A C C A	IC31.10	IC33.1	C G - G A C G C C T C C G C C C C G G G C T - G G A T C G G A G C G T C G G
IC-1	T G C T C G H C C C C C G T A C C H	L52.2	S111.1	H G - G T C G H C T G C G C C A C H H G C A + H G C H C G G A G H G H H G G
IC-2	H G C H C G G H H C C C G T A C C H	ID41.5	K45.1	H G - G H C G C C T H C G C C H C G G G C A + C G C T C G G A G C G T C G G
IC-4	T G C T C G H H C C C C G T A C C H	IC31.8	L52.2	H G - G H C G H C T H C G C C H C G G G C H H G G H H C G G A G H G H H G G
IC-5	T G C H C G G C H C C C G T A C C H	K44.1	S115.1	H G - G T C G C C T G C G C C A C H H G C A + C G C T C G G A G C G T C G G
IC-6	T G C T H G C C C C C C G T A C C H	J43.1	W145.6	G G + G T C G H C T G C G C C A C G G G C H H G H H C G G A G H G H H G G
IC-7	T G C T C G G H C C C C G T H C H A	IC42.1	N81.1	C G - G H C H C C T H C G C C H C G G H C H H G G H H C G G A G H G H C G G
IC-8	T G C T H G H C H C C C G T A C C H	IE40.1	K44.1	H G - G H C G C C T H C G C C H C G G G C H H H G H T C G G A G C G T C G G
IC-9	H G C T C G G H C C C C G T A C C H	L52.1	V209.1	H G - G T C G H C T G C G C C A C G G G C A + H G C H C G G A G H G H H G G
IC-10	C G C T C G G H C C C C G H A C C A	ID41.5	Y406.1	C G - G H C G C C T C H G C C H C G G G C H H H G H T C G G A G C G T C G G
IC-11	T G C T H G H H C C C C G T A C C A	IC31.9	J43.1	H G H G H C G C C T H C G C C H C G G G C T - G H A T C G G A G C G T C G G
IC-12	H G H T C G H C C C C C G T A C C H	M86.1	X146.1	C G H G T C G H C T H H G H C A C G G G C H H H G H T C G G A G C G T C G G
IC-13	H G C T C G G H C C C C G T A C C A	ID40.2	Q87.3	C G - H H C G H C T H C G C C H C G G G C A + C G C T C G G H G C H T C G G
IC-14	T G C H C G G C T C C C G T A C C C	K45.1	K45.1	G G - G T C G C C T C G C C C A C G G G C A + C G C T C G G A G C G T C G G
IC-15	C G C T C G G A C C C C G T A C C A	ID38.5	ID41.5	C G - G A C G C C T C C G C C C C G G G C A + C G C T C G H A G C G T C G G
IC-16	T G C H C G G C T C C C G T A C C C	K43.1	K44.1	G G - G T C G C C T G C G C C A C G G H C A + H G C H C G G A G H G H C G G

IC-17	T G C T C G G C C C C G T H C H A N82.5	S111.1	C G - G T C H C C T G C G C C A C H H H C A + H G C H C G G A G H G H C G G
IC-19	T G C H C G G C H C C C G T A C C H K44.2	IIIA215.1	H G - G T C G C C T G C G C H A C H H G C A + C G C T C G G A G C G T C G H
IC-20	T G C T H G C C C C C G T A C C H J43.1	L52.2	G G H G T C G H C T G C G C C A C G G G C H H G H H C G G A G H G H H G G
IC-21	H G C T C G H H C C C G T A C C H IC34.8	W148.1	H G H G H C G H C T H C G C C H C G G G C H H G G H H C G G A G H G H H G G
IC-22	T G C T C G H H C C C G T A C C H IC31.8	L52.1	H G - G H C G H C T H C G C C H C G G G C H H G G H H C G G A G H G H H G G
IC-23	T G C H C G G C H C C C G T A C C H K43.2	IIIA145.6	H G - G T C G C C T G C G C H A C H H G C A + C G C T C G G A G C G T C G G
IC-24	H G C H C G G H H C C C G T A C C H ID41.5	K44.1	H G - G H C G C C T H C G C C H C G G G C A + C G C T C G G A G C G T C G G
IC-25	T G C H C G G C H C C C G T A C C H K44.2	IIIA145.7	H G - G T C G C C T G C G C H A C H H G C A + C G C T C G G A G C G T C G G
IC-26	C G C T C G G C C C C G T A C C A Q88.3	IIIB142.4	C G - H T C G H C T H H G C C A C G G G C H H H H T C G G H G C H T C G G
IC-27	T G C T C G G C C C C G T H C H A N83.1	IIIA140.1	C G - G T C H C C T G C G C H A C G G H C A + H G C H C G G A G H G H C G G
IC-28	H G C T C G H C C C C G T A C C H W146.1	O188.1	H G H G T C G T C T G C G C C A C G G G C A + H G C H C G G A G H G H H G G
IC-29	T G C T H G H C C C C G T A C C H J43.1	T112.1	G G + G T C G C C T G C G C C A C G G G C H H G H H C G G A H H G H H G G
IC-30	T G C T C G C C C C C G T A C C C W145.4	W153.1	G G + G T C G T C T G C G C C A C G G G C A + H G C C C G G A G T G C T G G
IC-31	H G C T C G G A C C C G T A C C A IC33.6	ID40.2	C G - G A C G C C T C C G C C C G G G C H H H G H T C G G A G C G T C G G
IC-32	T G C T C G H C C C C G T A C C H W176.3	IIIA213.1	H G H G T C G H C T G C G C H A C H H G C A + H G C H C G G A G H G H H G H
IC-33	T G C T C G H H C C C G T A C C H IC31.8	W139.1	H G H G H C G H C T H C G C C H C G G G C H H H G H H C G G A G H G H H G G
IC-34	H G C T C G G A C C C G T A C C A ID41.5	ID44.1	C G - G A C G C C T C C G C C C C G G G C A + C G C T C G G A G C G T C H G
IC-35	T G C H C G G C H C C C G T A C C C K45.1	L52.1	G G - G T C G H C T G C G C C A C G G G C A + H G C H C G G A G C G T C G G
IC-36	T G C T C G C C C C C G T A C C C L52.1	W146.2	G G H G T C G T C T G C G C C A C G G G C A + G G C C C G G A G T G C T G G
IC-37	T G C T C G H H C C C C G T A C C H IC32.9	W151.3	H G H G H C G H C T H C G C C H C G G G C H H H G H H C G G A G H G H H G G
IC-38	T G C H C G H C H C C C G T A C C C K44.2	W152.2	G G H G T C G H C T G C G C C A C G G G C A + C G C H C G G A G H G H H G G
IC-39	T G C H C G H C H C C C G T A C C C K45.1	L52.1	G G - G T C G H C T G C G C C A C G G G C A + H G C H C G G A G C G T C G G
IC-40	T G C T C G G C C C C G T A C C A S110.2	IIIA184.1	C G - G T C G C C T G C G C H A C T A G C A + C G C T C G G A G C G T C G H
IC-41	T G C T C G G H C C C G T A C C A IC34.6	Q86.3	C G - H H C G H C T H C G C C H C G G G C H H H G H T C G G H G C H T C G G
IC-42	T G C T C H G H C C C C G T H C C A IC31.8	G29.1	C G - G H C G C C T H C G C C H C G G G H H H H G H T C G G A G C G T C G G
IC-43	T G C T H G H C C C C G T A C C A J45.1	IIIA143.5	C G - G T C G C C T G C G C H A C H H G C A + C G C T C G G A G C G T C G H
IC-44	T G C T C G G C H C C C G T H C H H K44.4	N81.1	H G - G T C H C C T G C G C C A C G G H C A + H G C H C G G A G H G H C G G
IC-45	T G C H C G G C H C C C G T A C C H K44.2	S111.1	H G - G T C G C C T G C G C C A C H H G C A + C G C T C G G A G C G T C G G
IC-46	C G C T C G H H C C C C G T A C C H ID43.9	M85.1	C G H G H C G H C T H C G H C H C G G G C A + C G C T C G G A G C G T C H G
IC-47	T G C H C G G C H C C C G T A C C H K44.1	S108.1	H G - G T C G C C T G C G C H A C H H G C A + C G C T C G G A G C G T C G G
IC-48	T G C T C G G H C C C C G T A C C A ID44.1	V129.1	C G - G H C G C C T H C G C C H C G G G C A + C G C T C G G A G C G T C H G
IC-49	T G C T H G H H C C C C G T A C C A IC42.1	J43.1	H G H G H C G C C T H C G C C H C G G G C T - G H H T C G G A G C G T C G G
IC-50	T G C H H G H C H C C C G T A C C H J43.1	K44.1	G G H G T C G C C T G C G C C A C G G G C H H H H H T C G G A G C G T C G G
IC-51	T G C T H G C C C C C G T A C C H J42.1	L51.3	G G H G T C G H C T G C G C C A C G G G C H H G H H H C G G A G H G H H G G
IC-52	C G C T C G C C C C C G T A C C C M86.1	M86.1	C G + G T C G T C T G C G T C A C G G G C A + C G C T C G G A G C G T C G G
IC-53	T G C C C G G C T C C C G T A C C C K44.1	K45.1	G G - G T C G C C T G C G C C A C G G G C A + C G C T C G G A G C G T C G G
IC-54	H G C T C G H H C C C C G T A C C H ID43.9	W148.1	H G H G H C G H C T H C G C C H C G G G C A + H G C H C G G A G H G H H G G
IC-55	T G C T C G H C H C C C G T A C C C K45.1	L52.2	G G - G T C G H C T G C G C C A C G G G C A + H G C H C G G A G H G H H G G
IC-56	T G C H C G G C T C C C G T A C C C K45.1	K45.1	G G - G T C G C C T G C G C C A C G G G C A + C G C T C G G A G C G T C G G
IC-57	C G C T C G G H C C C C G T A C C A ID41.5	IIIB144.1	C G - G H C G C C T C H G C C H C G G G C T - G H A T C G G A G C G T C G G
IC-58	H G C T C G G C H C C C G T A C C H K43.1	O160.1	H G - G T C G H C T G C G C C A C G G G C A + H G C H C G G A G H G H H G G
IC-60	H G C T C G H C C C C G T A C C H L52.2	O152.1	H G - G T C G T C T G C G C C A C G G G C A + H G C H C G G A G H G H H G G
IC-61	T G H T C G G C C C C G T A C C A X142.2	IIIA145.4	C G - G T C G C C T H H G C C A C G G G C H H H G H T C G G A G C G T C G G
IC-62	T G C H H G H C H C C C G T A C C H J43.1	K45.1	G G H G T C G C C T G C G C C A C G G G C H H H H H T C G G A G C G T C G G
IC-63	H G C T H G H C C C C G T A C C A J43.1	IIIB141.2	H G H G T C G C C T H H G C C A C G G G C T - G A A T C G G A G C G T C G G

IC-64	T G C T C G H C H C C C G T A C C C K43.1	W151.2	G G H G T C G H C T G C G C C A C G G G C A + C G C H C G G A G H G H H G G
IC-66	T G C T H G H C H C C C G T A C C H J43.1	K45.2	G G H G T C G C C T G C G C C A C G G G C H H H H H T C G G A G C G T C G G
IC-67	H G C T C G C C C C C C G T A C C C L52.2	M86.1	H G H G T C G T C T G C G H C A C G G G C A + H G C H C G G A G H G H H G G
IC-68	H G C T C H G H C C C C G T H C C A ID41.5	G30.1	C G - G H C G C C T H C G C C H C G G G H A + C G C T C G G A G C G T C G G
IC-69	T G C T C G C C C C C C G T A C C C W142.1	W152.3	G G + G T C G T C T G C G C C A C G G G C A + H G C C C G G A G T G C T G G
IC-70	T G C T C G C C C C C C G T A C C C L52.1	W152.4	G G H G T C G T C T G C G C C A C G G G C A + H G C C C G G A G T G C T G G
IC-71	T G C T T G C C C C C C G T A C C A J42.1	J43.1	G G + G T C G C C T G C G C C A C G G G C T - G A A T C G G A G C G T C G G
IC-72	T G C T C G G C H C C C G T A C C H K44.5	IIIB144.1	H G - G T C G C C T H H G C C A C G G G C H H H H H T C G G A G C G T C G G
IC-73	H G C T C G G H C C C C G T A C C H IC34.8	W152.2	H G H G H C G H C T H C G C C H C G G G C H H H G H H C G G A G H G H H G G
IC-74	T G C T C G C C C C C C G T A C C C W145.5	W148.2	G G + G T C G T C T G C G C C A C G G G C A + G G C C C G G A G T G C T G G
IC-75	H G H T C G G C C C C C G T A C C A X142.3	O151.1	C G - G T C G H C T H H G C C A C G G G C H H H G H T C G G A G C G T C G G
IC-76	T G C T H G C C C C C C G T A C C H J43.1	W144.1	G G + G T C G H C T G C G C C A C G G G C H H G H H H C G G A G H G H H G G
IC-77	T G C T C G H C H C C C G T A C C C K42.1	W148.1	G G H G T C G H C T G C G C C A C G G G C A + H G C H C G G A G H G H H G G
IC-78	H G C T C G G H C C C C G T A C C A IC31.4	IIIB143.4	C G - G H C G C C T C H G C C H C G G G C T - G H A T C G G A G C G T C G G
IC-79	T G C T H G H H C C C C G T A C C A IC34.3	J43.1	H G H G H C G C C T H C G C C H C G G G C T - G H A T C G G A G C G T C G G
IC-80	H G C T C G G H H C C C G T A C C H ID41.5	K42.1	H G - G H C G C C T H C G C C H C G G G C A + C G C T C G G A G C G T C G G
IC-81	T G C T C G G C H C C C G T A C C H K45.1	S108.1	H G - G T C G C C T G C G C C A C H H G C A + C G C T C G G A G C G T C G G
IC-82	T G C H C G G C H C C C G T A C C H K45.1	IIIA145.8	H G - G T C G C C T G C G C C A C G G G C A + C G C T C G G A G C G T C G G
Z-1	H G C T C G G H C C C C G T A C C H ID40.2	P79.1	C G - G H C G C C T H C G C C H C G G G C A + H G C T C G G A G C G T C G G
Z-2	T G C T C G H C C C C C G T H C H H N79.1	W176.1	H G H G T C H H C T G C G C C A C G G H C A + G G C C C G G A G T G C H G G
Z-3	H G C T C G G C H C C C G T A C C H K43.1	IIIB142.2	H G - G T C G C C T H H G C C A C G G G C H H H H H T C G G A G C G T C G G
Z-4	T G H T C G G C C C C C G T A C C A Q87.1	X142.1	C G - H T C G H C T H H G C C A C G G G C H H H G H T C G G H G C H T C G G
Z-7	C G T C G G H C C C C C G T A C C A ID41.5	Y630.1	C G - G H C G C C T C H G C C H C G G G C H H H G H T C G G A G C G T C G G
Z-9	T G C T C G H C H C C C G T A C C C K43.1	W146.1	G G H G T C G H C T G C G C C A C G G G C A + H G C H C G G A G H G H H G G
Z-10	T G C T C G G H C C C C G T A H C A IC35.8	F17.1	C G - G H C G H C H H C G C C H C G G G H H H G G H T C G G A G C G T C G G
Z-11	T G C T H G H H C C C C G T A C C A IC35.8	J43.1	H G H G H C G C C T H C G C C H C G G G C T - G H A T C G G A G C G T C G G
Z-12	T G H T C G G C C C C C G T H C H A N81.1	X146.1	C G - G T C H C C T H H G C C A C G G G C H H G G H H C G G A G H G H C G G
Z-13	T G C H C G G C H C C C G T A C C H K44.1	Q88.1	H G - H T C G H C T G C G C C A C G G G C A + C G C T C G G H G C H T C G G
Z-14	T G C T C G H C C C C C G T H C H A N82.2	U119.1	C H - G T C H C C T G C G C C A C G G H C A + G G C H C G G A G H G H C G G
Z-15	T G H T C G G C C C C C G T A C C A Q86.1	X144.1	C G - H T C G H C T H H G C C A C G G G C H H H G H T C G G H G C H T C G G
Z-16	H G C T C G G C C C H C G H A C C H T107.1	Y422.1	H G H G T C G C H T H H H C C A C G G G C H H G G H H C H G A H H G H H G G
Z-17	H G C T C G G H C C C C G T H C H A ID40.2	N82.1	C G - G H C H C C T H C G C C H C G G H C A + H G C H C G G A G H G H C G G
Z-18	T G C T H G H C H C C C G T A C C C K43.1	L51.1	G G - G T C G H C T G C G C C A C G G G C A + H G C H C G G A G H G H H G G
Z-20	T G C H C H G C H C C C G T H C C H G30.1	K44.1	H G - G T C G C C T G C G C C A C G G G H A + C G C T C G G A G C G T C G G
Z-21	T G C T H G C C C C C C G T A C C H J43.1	W145.1	G G + G T C G H C T G C G C C A C G G G C H H G H H H C G G A G H G H H G G
Z-22	T G H T C G G C C C C C G T A C C A X140.1	IIIA207.1	C G - G T C G C C T H H G C H A C H H G C A + C G C T C G G A G C G T C G H
Z-23	H G C T C G G H C C C C G T A C C H ID41.5	P79.1	C G - G H C G C C T H C G C C H C G G G C A + H G C T C G G A G C G T C G G
Z-24	T G C T C G C C C C C C G T A C C C W146.1	W146.1	G G + G T C G T C T G C G C C A C G G G C A + G G C C C G G A G T G C T G G
Z-25	T G C T C G G C T C C C G T A C C C K45.1	K52.1	G G - G T C G C C T G C G C C A C G G G C A + C G C T C G G A G C G T C G G
Z-26	T G C T C G C C C C C C G T A C C C L52.1	W176.1	G G H G T C G T C T G C G C C A C G G G C A + G G C C C G G A G T G C T G G
Z-27	H G C T C G H C C C C C G H A C C H L50.1	Y421.1	H G - G T C G H H T H H H C C A C G G G C H H G G H H C G G A G H G H H G G
Z-28	T G C H C G G H H C C C G T A C C H IC35.7	K44.1	H G - G H C G C C T H C G C C H C G G G C H H H G H T C G G A G C G T C G G
Z-29	H G C H C G G H H C C C G T A C C H ID43.9	K44.2	H G - G H C G C C T H C G C C H C G G H C A + H G C H C G G A G H G H C H G
Z-31	T G C T C G G A C C C C H T A C C A IC31.8	IE39.1	C G - G A C G C C T C C G C C C G G G C T - G G A T C G G A G C G T C G G
Z-33	T G C T C G G H H C C C G T A C C H IC34.7	K43.1	H G - G H C G C C T H C G C C H C G G G C H H H G H T C G G A G C G T C G G

Z-34 T G C H H G H C H C C C G T A C C H J42.4 K45.1  
 Z-35 T G C H H G H C H C C C G T A C C H K43.2 J43.4  
 Z-36 T G C T C G G C H C C H G T A C C H H29.1 K43.1  
 Z-37 T G C C C G G C H C C C G T A C C C K44.2 K44.2  
 Z-38 T G C T C G G C C C T C G T A C C C T107.1 T112.1  
 Z-39 T G C T H G C C C C C C G T A C C H J42.2 W175.1  
 Z-42 T G C T C G C C C C C C G T A C C C W146.1 W151.1  
 Z-43 T G C T H G H C C C H C G T A C C H J42.1 T112.1  
 Z-44 T G C T C G C C C C C C G T A C C C W145.2 W175.2  
 Z-46 T G C T C G H C H C C C C G T A C C C L51.1 K52.2  
 Z-47 T G C T C G G H C C C C C G T H C H A IC34.6 N82.4  
 Z-49 T G C T C G H C C C H C G T A C C C L52.1 T107.1  
 Z-50 H G H T C G G H C C C C C G T A C C A ID40.2 X145.1  
 Z-51 H G C T C G H C C C C C G T A C C H IIB142.2 W148.1  
 Z-53 H G C T H G H H C C C C G T A C C A IC36.9 J42.3  
 Z-54 H G C T C G G H C C C C C G T A C C H IC36.9 P79.1  
 Z-55 H G C T C G G H C C C C C G H A C C A IC35.7 Y422.2  
 Z-56 T G C H H G H C H C C C C G T A C C H J42.2 K44.2  
 Z-57 T G C T H G H C C C C C G T A C C A J42.2 Q88.2  
 Z-58 H G C T C G H C H C C C C G T A C C H M86.1 V216.1  
 Z-59 C G C T C G G H C C C C C G T A C C H ID41.5 P79.1  
 Z-61 T G C T C G H C C C C C G T H C H N82.1 W152.1  
 Z-62 T G C T C G G H C C C C C G T A C C H IC35.7 L51.1  
 Z-63 T G C H C G H C H C C C C G T A C C C K44.2 W147.1  
 Z-64 T G C T C G G H C C C C C G T H C H A IC35.8 N82.3  
 Z-65 T G C H C G H C H C C C C G T A C C C K44.1 W176.2  
 Z-67 H H C H C G H C H C C C C G T A C C H K44.2 Z191.1  
 Z-68 T G C T H G H H C C C C C G T A C C A IC35.7 J42.2  
 Z-72 T G H T C G H C C C C C G T A C C H X146.1 W175.3  
 Z-73 T G C T C G G C H C C C C G T A C C H K45.1 Q87.2  
 Z-74 H G C T C G G H C C C C C G T H C H A ID43.9 N81.1  
 Z-75 T G C T C G G C H C C C C G T A C C H K52.1 Q87.2  
 Z-79 T G C T C G C C C C C C C G T A C C H U119.2 W175.4  
 Z-82 H G C T C G G C C C H C G H A C C H T107.1 Y422.3  
 Z-83 H G C H C G G H H C C C C G T A C C H ID40.2 K44.1  
 Z-84 T G C T H G H C C C C C G T A C C A J42.1 S111.1  
 Z-85 T G C T C G G C C C C H G T A C C A H29.1 Q88.1  
 Z-86 T G C T C G G A C C C C C H T A C C A IC31.8 IE39.1  
 Z-88 T G C H C G G C H C C C C G T A C C H K44.1 Q94.1  
 Z-89 T G C T C G H C C C C C C G T A C C H IIIA154.1 W172.1  
 Z-90 T G C T C G H H C C C C C G T A C C H IC34.6 L51.1  
 Z-91 T G C T C G G H H C C C C C G T A C C A IC35.7 V216.1  
 K-10 H G C T C G G C C C C C C G T A C C A S111.1 IIB142.2  
 K-1Q H G C T C G H C C C C C C G T A C C H M86.1 Q86.1  
 K-2F T G C H C G H C H C C C C G T A C C C K44.1 W145.3

G G H G T C G C C T G C G C C A C G G G C H H H H H T C G G A G C G T C G G  
 H G H G T C G C C T G C G C C A C G G G C H H H H H T C G G A G C G T C G G  
 H G - G T C G C C T G C G C C A C G G G C A + C G C T C G G A G C G T C G G  
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 H G H G T C G H C T G C G C H A C H H G C A + C G C H C G G A G H G H H G G  
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 C G - G T C G C C T H H G C C A C H H G C H H H H H T C G G A G C G T C G G  
 C G H H T C G T C T G C G H C A C G G G C A + C G C T C G G H G C H T C G G  
 G G H G T C G H C T G C G C C A C G G G C A + H G C H C G G A G H G H H G G

K-2I	H G C T C G G H C C C C G T A C C A ID41.3	Q87.2	C G - H H C G H C T H C G C C H C G G G C A + C G C T C G G H G C H T C H G
K-2J	T G C T C G H C C C C C G T A C C H Q94.1	W154.1	H G H H T C G T C T G C G C C A C G G G C A + C G C H C G G H G H H H G G
K-2P	T G C T C G H H C C C C G T A C C H IC32.4	W147.2	H G H G H C G H C T H C G C C H C G G G C H H G G H H C G G A G H G H H G G
K-2R	T G C H C G G H H C C C G T A C C H K44.3	L52.1	G G - G T C G H C T G C G C C A C G G G C A + H G C H C G G A G H G H H G G
K-2U	T G H H C G G C H C C C G T A C C H K44.1	X142.1	H G - G T C G C C T H H G C C A C G G G C H H H G H T C G G A G C G T C G G
K-2X	H G C T C G H C H C C C G T A C C C K43.1	M86.1	H G H G T C G H C T G C G H C A C G G G C A + C G C T C G G A G C G T C G G
K-3A	H G C T C G H H C C C C G T A C C H IC37.5	L51.2	H G - G H C G H C T H H G C C A C G G G C H H G G H H C G G A G H G H H G G
K-3F	T G C H C G G H H C C C G T A C C H ID40.2	K44.2	H G - G H C G C C T H C G C C H C G G G C A + C G C T C G G A G C G T C H G
K-3G	T G C T C G G C H C C H G T A C C A H29.2	V216.2	C G - G T C G C C T G C G C C A C G G G C A + H G C T C G G A G C G T C G G
K-3I	T G C T C G G C C C C H G T A C C A H29.1	S110.1	C G - G T C G C C T G C G C C A C H H G C A + H G C T C G G A G C G T C G G
K-3K	T G C T C G H H C C C C G T A C C H ID40.2	W146.1	H G H G H C G H C T H C G C C H C G G G C A + H G C H C G G A G H G H H H G
K-3L	H G C T H G H H C C C C G T A C C A ID40.2	J43.1	H G H G H C G C C T H C G C C H C G G G C T - G H A T C G G A G C G T C G G
K-3M	H G C T C G G H C C C C G T A C C A ID43.10	IIIA148.15	C G - G H C G C C T H C G C H H C G G G C A + H G C H C G G A G H G H H H G
K-3P	T G C T C G G C H C C C G T A C C H K43.1	Q88.1	H G - H T C G H C T G C G C C A C G G G C A + C G C T C G G H G C H T C G G
K-3Q	H G C T C G G C C C C C G T A C C A Q86.2	V207.1	C G - H T C G H C T G C G C C A C G G G C A + C G C T C G G H G C H T C G G
K-3R	T G C H C G G C T C C C G T A C C C K44.2	K44.2	G G - G T C G C C T G C G C C A C G G G C A + C G C T C G G A G C G T C G G
K-3T	T G C T C G H C H C C C G T A C C H J43.2	J43.1	G G H G T C G C C T G C G C C A C G G G C H H H H H T C G G A G C G T C G G
K-3U	T G C H C G H C H C C C G T A C C C K44.1	W176.3	G G H G T C G H C T G C G C C A C G G G C A + H G C H C G G A G H G H H G G
K-4B	T G C T H G H C C C C C G T A C C A J42.2	IIIA143.3	H G H G T C G C C T G C G C H A C H H G C H H H H H T C G G A G C G T C G G
K-4C	T G C T C G G C C C H C G T A C C H Q87.1	T107.1	H G H H T C G H C T G C G C C A C G G G C A + H G C H C H G H H H H H H G G
K-4F	T G C T C G G C C C C C G T A C C A IIIA114.1	IIIA146.6	C G - G T C G C C T G C G C T A C H H G C A + C G C T C G G A G C G T C G G
K-4G	T G C T C G G C C C C C G T A C C H P79.1	Q87.1	C G - H T C G H C T G C G C C A C G G G C A + H G C T C G G H G C H T C G G
K-4J	T G C H C G G C T C C C G T A C C C K44.1	K44.2	G G - G T C G C C T G C G C C A C G G G C A + C G C T C G G A G C G T C G G
K-4N	T G C T C G H C C C C C G T A C C H L51.2	S111.1	H G - G T C G H C T G C G C C A C H H G C A + H G C H C G G A G H G H H G G
K-4P	H G C T H G H C C C C C G T A C C A J43.1	V207.2	H G H G T C G C C T G C G C C A C G G G C H H H H H T C G G A G C G T C G G
K-4S	T G C T H G C C C C C C G T A C C H K43.1	W143.1	G G + G T C G H C T G C G C C A C G G G C T - G A A T C G G A G C G T C G G
K-4U	T G C T C G G H C C C H G T A C C A ID44.1	H29.1	C G - G H C G C C T H C G C C H C G G G C A + C G C T C G G A G C G T C H G
K-4V	H G C T C G G H H C C C G T A C C H ID40.2	K43.1	H G - G H C G C C T H C G C C H C G G G C H H H G H T C G G A G C G T C G G
K-4W	H G C T C G G A C C C C G T A C C A ID40.2	ID42.3	C G - G A C G C C T C C G C C C G G G C H H H G H T C G G A G C G T C H G
K-4X	T G C T H G H C H C C C G T A C C H K43.1	J43.2	G G H G T C G C C T G C G C C A C G G G C H H H H H T C G G A G C G T C G G
K-4Y	T G C T H G H C H C C C G T A C C H J43.3	J43.3	G G H G T C G C C T G C G C C A C G G G C H H H H H T C G G A G C G T C G G
K-5A	T G T T C G G C T C C C G T A C C C K42.1	K42.1	G G - G T C G C C T G C G C C A C G G G C A + C G C T C G G A G C G T C G G
K-5B	T G C T C G G C C C C C G T A C C H P79.1	IIIA211.1	C G - G T C G C C T G C G C H A C H H G C A + H G C T C G G A G C G T C G H
K-5C	C G C T C G G C C C C C G H A C C A IIIB145.4	IIIB145.4	C G - G T C G C C T C T G C C A C G G G C T - G G A T C G G A G C G T C G G
K-5D	H G C T C G G C C C C C G T A C C A Q87.1	V207.2	C G - H T C G H C T G C G C C A C G G G C A + C G C T C G G H G C H T C G G
K-5E	C G C T C G H H C C C C G T A C C H ID39.7	M86.1	C G H G H C G H C T H C G H C H C G G G C A + C G C T C G G A G C G T C G G
K-5F	T G C T C G G C H C C C G T A C C H K44.1	X157.1	H G - G T C G C C T H H G C C A C G G G C H H C G H T C G G A G C G T C G G
K-5I	T G C T C G C C C C C C G T A C C C W146.1	W146.1	G G + G T C G T C T H G C C A C G G G C A + G G C C C G G A G T C G G
K-5J	T G C H C G G H H C C C G T A C C A IC32.9	IIIA148.16	C G - G H C G C C T H C G C H H C H H G C H H H G H T C G G A G C G T C G G