

240 tetrads

174 valid

63 Markers

LG

Cen

Calculate

Key:

83: 1: 45

18.22±6.63

Below diagonal = P:N:T data for pairs of markers

Above diagonal = distance (cM) ± 95% confidence limit for linked markers

	1	1	1	2	2	2	3	3	3	3	3	3	3	3	3	5
	Tctex1	Pc1	Cac4.1	cpx1	alad	dhc4	KF80	gsat	ac208	Yptc6	uni3	LC6	Tua1	Cac4.5	Hyd1	ald
Tctex1		18.22±6.63	34.06±11.13													
Pc1	83: 1: 45		22.12±11.22													
Cac4.1	24: 2: 43	29: 0: 23														
cpx1	43: 50: 42	26: 23: 49	7: 11: 36													
alad	62: 77: 29	32: 40: 56	9: 18: 42	100: 16: 17												
dhc4	51: 55: 42	32: 30: 51	12: 10: 40	48: 10: 59	82: 4: 61											
KF80	19: 12: 123	18: 17: 82	10: 7: 45	16: 17: 89	19: 21: 113	19: 20: 97		34.29±15.65	37.86±9.32		38.08±7.71	38.49±7.70	39.40±7.75			
gsat	12: 11: 18	9: 7: 22	1: 2: 8	9: 10: 14	13: 13: 15	10: 12: 14	12: 1: 22		8.06±9.54	10.87±12.66	6.10±7.29	8.54±8.51	8.54±8.51	25.86±15.86	32.35±15.65	
ac208	44: 29: 42	20: 20: 46	8: 10: 33	21: 23: 48	32: 33: 49	27: 22: 52	31: 6: 66	26: 0: 5		16.00±14.30	9.29±5.33	9.21±5.28	10.09±5.50	23.53±8.97	32.58±9.69	
Yptc6	14: 13: 10	7: 7: 21	0: 0: 3	5: 12: 13	11: 13: 13	8: 13: 14	9: 0: 24	18: 0: 5	19: 2: 4		1.35±3.70	1.35±3.70	2.70±5.20	19.57±16.13	25.86±15.86	
uni3	66: 58: 42	33: 31: 63	13: 13: 41	40: 41: 51	60: 53: 53	46: 44: 55	41: 5: 105	36: 0: 5	94: 2: 17	36: 0: 1		0.90±1.43	1.52±1.87	16.40±6.46	30.62±7.91	
LC6	68: 57: 42	35: 31: 62	12: 14: 42	39: 42: 51	58: 54: 55	45: 44: 57	41: 6: 105	34: 0: 7	95: 2: 17	36: 0: 1	163: 0: 3		1.82±2.03	17.06±6.54	31.15±7.92	
Tua1	68: 60: 38	33: 33: 61	14: 16: 37	39: 44: 49	60: 56: 50	45: 44: 56	38: 6: 107	34: 0: 7	94: 3: 17	35: 0: 2	159: 0: 5	159: 0: 6		16.00±6.39	29.30±7.84	
Cac4.5	66: 46: 15	37: 25: 36	11: 10: 34	32: 32: 35	43: 48: 35	36: 37: 34	19: 8: 87	16: 2: 11	47: 2: 36	14: 0: 9	85: 1: 39	84: 1: 41	86: 1: 38		19.63±7.49	
Hyd1	43: 41: 47	30: 27: 49	13: 10: 37	19: 29: 59	31: 39: 60	40: 28: 47	14: 14: 92	14: 2: 18	33: 2: 54	14: 0: 15	54: 4: 71	53: 4: 73	56: 3: 69	70: 5: 32		
ald	69: 81: 16	43: 39: 45	13: 10: 45	42: 45: 45	67: 57: 40	54: 47: 43	20: 18: 114	9: 10: 21	33: 33: 46	13: 8: 14	58: 54: 50	60: 53: 50	61: 52: 49	54: 50: 20	47: 38: 45	
KF78	29: 38: 75	24: 18: 64	12: 9: 36	34: 20: 61	36: 28: 77	37: 20: 68	19: 20: 94	7: 7: 20	27: 12: 62	6: 3: 20	34: 23: 82	34: 23: 83	35: 21: 84	30: 24: 55	26: 26: 61	55: 12: 72
KF76	49: 32: 49	31: 18: 50	12: 6: 30	23: 21: 61	39: 29: 60	36: 29: 48	19: 21: 82	7: 10: 17	20: 18: 54	9: 11: 11	31: 32: 63	32: 32: 63	32: 32: 63	36: 30: 37	26: 33: 45	35: 38: 54
oda11	70: 70: 22	36: 43: 47	12: 14: 39	38: 46: 44	59: 59: 42	53: 39: 48	19: 11: 117	10: 12: 18	29: 32: 48	12: 11: 12	50: 59: 49	49: 59: 51	49: 62: 47	45: 52: 26	34: 36: 57	65: 68: 27
A46	52: 55: 40	30: 38: 48	12: 16: 39	28: 33: 56	42: 46: 58	41: 36: 52	23: 15: 97	8: 11: 13	21: 31: 50	6: 10: 10	36: 50: 58	38: 50: 57	35: 50: 59	37: 42: 33	31: 32: 53	56: 46: 43
dhc3	40: 37: 49	23: 28: 44	8: 7: 33	26: 19: 57	32: 29: 63	29: 30: 47	19: 14: 82	10: 7: 11	19: 19: 47	7: 6: 9	32: 30: 61	31: 30: 62	31: 30: 61	26: 27: 43	25: 23: 47	42: 35: 47
KF82	74: 65: 20	43: 31: 49	14: 10: 41	29: 51: 46	62: 57: 39	52: 36: 51	13: 17: 113	10: 13: 18	30: 31: 46	13: 12: 12	45: 60: 52	44: 59: 55	48: 59: 50	49: 60: 14	37: 45: 43	66: 61: 29
Zsp1	36: 31: 39	20: 13: 40	10: 2: 21	18: 33: 38	34: 26: 45	29: 15: 49	10: 15: 69	8: 8: 10	15: 18: 33	10: 7: 9	25: 33: 45	25: 34: 45	27: 31: 46	26: 34: 28	21: 22: 39	35: 27: 41
GP387	42: 33: 52	21: 19: 55	10: 4: 33	21: 25: 56	33: 34: 60	40: 20: 53	17: 22: 79	8: 6: 18	21: 16: 45	9: 6: 16	28: 36: 61	27: 37: 62	30: 35: 62	28: 26: 41	18: 23: 55	37: 34: 54
hsp70a	75: 86: 7	42: 43: 42	16: 9: 44	55: 39: 40	73: 66: 28	58: 47: 41	15: 19: 119	15: 10: 15	38: 31: 44	13: 12: 11	60: 61: 44	60: 60: 46	60: 63: 42	50: 60: 16	38: 44: 48	70: 77: 18
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vflL2R2	64: 58: 18	35: 29: 45	10: 6: 47	45: 30: 37	48: 50: 41	38: 37: 47	15: 18: 96	10: 5: 14	30: 22: 43	9: 6: 8	47: 43: 47	47: 42: 49	48: 46: 45	41: 42: 23	25: 34: 52	55: 58: 25
KF84	44: 52: 31	31: 20: 42	16: 9: 28	38: 26: 37	47: 41: 39	31: 29: 49	14: 14: 86	8: 7: 17	25: 20: 42	8: 8: 14	37: 40: 48	37: 40: 49	37: 42: 47	37: 40: 23	26: 34: 43	46: 47: 32
Zsp2a	25: 16: 28	14: 9: 34	5: 2: 10	12: 16: 24	14: 25: 30	17: 15: 26	7: 10: 45	2: 4: 10	12: 11: 30	4: 6: 9	17: 20: 32	17: 20: 32	17: 21: 31	18: 21: 20	13: 16: 26	21: 21: 24
OEE1	74: 54: 20	37: 32: 45	14: 10: 34	41: 38: 40	60: 52: 35	36: 45: 48	13: 15: 107	12: 9: 15	29: 27: 39	10: 12: 14	53: 47: 45	53: 46: 47	54: 49: 42	54: 53: 10	42: 37: 38	63: 55: 26
KF85	43: 53: 27	16: 26: 44	7: 7: 27	40: 28: 37	53: 34: 34	28: 30: 51	18: 7: 88	10: 10: 14	21: 19: 37	12: 8: 9	39: 30: 50	40: 30: 50	40: 33: 47	34: 40: 20	30: 31: 36	53: 37: 31
prk	54: 68: 18	29: 44: 41	10: 12: 40	31: 39: 45	52: 46: 40	45: 41: 36	23: 6: 100	12: 6: 16	30: 18: 45	14: 5: 12	53: 35: 48	53: 36: 48	54: 37: 45	44: 35: 23	36: 31: 43	57: 56: 24
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GS2	31: 55: 49	19: 32: 60	9: 13: 36	26: 33: 52	39: 44: 51	34: 34: 54	22: 13: 88	8: 10: 17	18: 24: 51	10: 10: 13	41: 36: 57	40: 35: 59	41: 35: 56	37: 25: 34	31: 16: 59	38: 42: 53
Iso	17: 21: 82	12: 19: 74	6: 6: 33	11: 18: 61	22: 19: 78	15: 18: 69	14: 19: 75	6: 5: 25	13: 18: 57	4: 6: 18	19: 19: 80	20: 20: 79	20: 18: 80	14: 15: 72	19: 9: 70	19: 18: 81
Cac4.1b	4: 7: 34	5: 4: 35	5: 3: 33	5: 2: 24	7: 4: 34	7: 6: 25	9: 11: 20	0: 1: 7	3: 4: 26	0: 1: 0	4: 4: 36	5: 5: 35	5: 5: 34	6: 5: 29	7: 4: 28	6: 5: 34
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CNC72	10: 11: 110	9: 12: 85	9: 9: 36	8: 14: 83	10: 16: 104	16: 9: 90	22: 15: 83	2: 6: 26	9: 14: 67	2: 6: 22	11: 18: 101	12: 19: 99	11: 19: 98	10: 7: 79	15: 7: 77	13: 7: 110
ccs1	48: 40: 65	27: 22: 69	10: 8: 42	31: 25: 68	42: 36: 74	38: 34: 61	26: 11: 104	8: 7: 22	25: 24: 53	7: 10: 17	37: 41: 73	37: 40: 75	35: 42: 73	25: 40: 53	24: 33: 62	39: 44: 66
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acti93	62: 54: 31	38: 29: 44	11: 10: 35	35: 32: 54	48: 46: 51	42: 39: 48	24: 16: 95	8: 11: 21	29: 30: 42	7: 8: 20	43: 49: 53	43: 50: 52	42: 51: 51	36: 46: 30	30: 36: 48	51: 58: 34
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B21	59: 58: 29	30: 37: 47	13: 10: 43	33: 39: 46	45: 55: 45	40: 49: 41	16: 10: 112	11: 7: 15	21: 26: 48	12: 4: 11	50: 45: 48	49: 46: 49	48: 46: 49	42: 46: 22	33: 36: 48	54: 56: 35
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Cac4.10	50: 47: 16	23: 26: 34	12: 13: 39	22: 34: 30	31: 52: 29	26: 36: 38	14: 10: 77	12: 7:								

5:24:00

240

174

63

LG

Cen

5  
26.41  
KF78

6  
-18.85  
KF76

6  
7.10  
oda11

6  
13.61  
A46

6  
19.05  
dhc3

7  
6.60  
KF82

7  
18.40  
Zsp1

7  
20.08  
GP387

8  
-1.79  
hsp70a

8  
1.20  
OEE3

8  
6.07  
vflL2R2

8  
11.81  
KF84

9  
-20.29  
Zsp2a

9  
6.42  
OEE1

12  
-10.57  
KF85

12  
-6.07  
prk

Tctex1																	
Pc1																	
Cac4.1																	
cpx1																	
alad																	
dhc4																	
KF80																	
gsat																	
ac208																	
Yptc6																	
uni3																	
LC6																	
Tua1																	
Cac4.5																	
Hyd1																	
ald	34.53±7.86																
KF78																	
KF76	28: 21: 67		28.86±7.97	30.28±8.58	36.08±9.51												
oda11	35: 23: 76	59: 7: 57		10.92±5.10	19.11±6.91												
A46	23: 22: 79	46: 3: 60	114: 3: 25		14.55±6.55												
dhc3	20: 17: 68	33: 6: 58	81: 5: 37	82: 4: 24													
KF82	35: 32: 66	39: 39: 43	61: 56: 34	47: 45: 45	34: 32: 50		18.18±7.56	25.21±7.76									
Zsp1	26: 19: 44	22: 22: 40	29: 26: 47	24: 22: 42	15: 15: 44	65: 2: 32		23.13±9.19									
GP387	26: 18: 64	35: 18: 45	37: 31: 53	27: 25: 58	20: 16: 61	66: 7: 46	45: 2: 33										
hsp70a	37: 29: 74	47: 34: 47	70: 67: 24	59: 47: 40	38: 38: 49	62: 73: 23	33: 33: 40	45: 33: 48		1.51±1.84	8.99±4.73	13.10±5.86					
OEE3	36: 32: 71	45: 35: 48	67: 67: 25	57: 47: 40	37: 37: 49	61: 73: 23	32: 33: 41	43: 34: 48	162: 1: 3		9.12±4.80	13.10±5.86					
vflL2R2	26: 24: 69	39: 25: 43	55: 52: 26	47: 31: 43	35: 27: 41	50: 51: 31	21: 28: 34	33: 26: 46	117: 3: 19	115: 3: 19		16.67±7.20					
KF84	33: 18: 60	35: 26: 42	41: 42: 37	37: 34: 38	24: 27: 45	47: 44: 31	24: 18: 40	28: 17: 53	93: 0: 33	93: 0: 33	71: 3: 28						
Zsp2a	17: 15: 32	12: 16: 29	24: 15: 26	17: 13: 28	16: 11: 26	18: 20: 28	10: 7: 21	13: 14: 23	17: 24: 27	17: 24: 28	13: 17: 26	14: 21: 21					
OEE1	30: 34: 62	30: 41: 47	46: 59: 36	36: 49: 42	32: 29: 46	70: 51: 19	34: 32: 32	32: 28: 50	49: 78: 20	49: 76: 22	42: 51: 26	28: 57: 28	28: 13: 28				
KF85	34: 25: 49	32: 28: 38	44: 35: 38	42: 25: 39	29: 19: 40	42: 52: 22	26: 33: 34	25: 28: 42	55: 40: 27	56: 39: 26	45: 29: 26	39: 29: 24	9: 17: 16	47: 42: 20		25.00±8.36	
prk	23: 31: 65	29: 33: 47	55: 47: 33	46: 41: 38	31: 33: 41	49: 52: 31	25: 23: 34	29: 32: 43	61: 60: 17	61: 58: 18	43: 48: 21	35: 32: 34	5: 25: 25	36: 58: 28	62: 11: 29		
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LC3	18: 18: 56	20: 13: 52	35: 24: 42	31: 23: 44	18: 18: 44	32: 29: 43	13: 13: 28	17: 18: 49	32: 33: 41	31: 33: 41	19: 26: 41	23: 24: 33	6: 16: 26	17: 38: 39	37: 6: 31	50: 0: 49	
GS2	22: 23: 69	25: 20: 54	46: 30: 54	39: 26: 58	23: 21: 55	37: 41: 51	21: 20: 39	22: 20: 56	41: 42: 51	40: 41: 52	23: 36: 51	29: 28: 46	6: 17: 30	19: 52: 45	39: 9: 46	63: 1: 53	
Iso	16: 20: 67	14: 14: 70	17: 19: 81	15: 19: 69	17: 15: 58	23: 14: 78	19: 9: 47	16: 11: 62	18: 18: 82	19: 19: 79	10: 21: 69	13: 18: 62	6: 13: 44	19: 17: 70	23: 8: 51	21: 4: 73	
Cac4.1b	3: 8: 27	6: 6: 20	3: 8: 33	3: 9: 32	3: 3: 25	5: 8: 32	3: 2: 15	7: 1: 19	5: 5: 35	6: 6: 32	2: 8: 32	4: 6: 27	0: 5: 13	4: 5: 31	7: 1: 14	6: 2: 33	
Vsp3	19: 19: 87	13: 15: 83	15: 19: 100	16: 22: 85	14: 16: 75	17: 13: 102	14: 12: 65	17: 13: 76	15: 17: 107	16: 16: 105	8: 16: 93	15: 16: 78	4: 14: 40	13: 14: 95	22: 7: 77	19: 5: 91	
CNC72	12: 16: 82	14: 12: 75	14: 11: 101	19: 14: 85	17: 14: 64	13: 9: 104	8: 7: 61	17: 8: 73	9: 11: 109	10: 10: 108	6: 13: 88	8: 10: 80	4: 8: 40	10: 11: 92	17: 9: 69	12: 5: 96	
ccs1	28: 31: 70	34: 16: 68	43: 33: 69	41: 26: 66	35: 16: 60	42: 43: 60	21: 25: 52	29: 25: 60	47: 38: 67	48: 37: 67	36: 29: 61	29: 22: 62	17: 17: 31	34: 41: 62	32: 27: 54	29: 41: 58	
rpl22a	24: 33: 64	30: 17: 63	47: 26: 60	43: 19: 57	36: 14: 54	43: 36: 52	25: 25: 48	30: 21: 55	47: 34: 57	49: 34: 55	38: 24: 51	33: 24: 51	16: 20: 28	30: 50: 48	36: 29: 43	35: 34: 47	
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Gle	4: 4: 7	1: 3: 9	2: 6: 8	2: 4: 10	2: 3: 4	3: 4: 9	1: 6: 6	0: 6: 8	6: 1: 9	7: 1: 9	2: 1: 3	6: 1: 7	0: 5: 12	3: 5: 9	3: 3: 6	2: 3: 9	
Dhc6	31: 24: 62	31: 22: 55	42: 29: 56	37: 24: 53	23: 22: 51	50: 33: 45	24: 27: 36	25: 20: 59	42: 40: 51	42: 39: 51	32: 31: 47	35: 28: 40	10: 15: 33	41: 37: 42	37: 26: 40	35: 32: 47	
KF79	38: 26: 65	46: 30: 44	69: 37: 39	61: 31: 41	34: 29: 47	66: 56: 22	30: 29: 36	34: 31: 51	66: 57: 26	66: 56: 27	48: 44: 31	43: 45: 30	17: 21: 27	51: 64: 21	51: 37: 26	48: 45: 32	
KF81	17: 11: 83	15: 8: 77	17: 6: 100	15: 11: 86	12: 10: 75	7: 5: 111	13: 6: 63	14: 7: 75	10: 6: 112	12: 5: 111	11: 7: 86	10: 8: 86	7: 4: 45	10: 5: 103	8: 5: 80	9: 8: 87	
Zsp2c	11: 10: 15	10: 15: 9	14: 20: 6	12: 13: 11	10: 11: 12	18: 19: 2	9: 8: 14	8: 12: 12	18: 21: 1	18: 21: 1	14: 15: 3	12: 14: 6	8: 15: 12	15: 21: 2	19: 9: 7	15: 13: 7	
Zsp2d	4: 5: 11	4: 1: 13	3: 4: 14	4: 4: 10	3: 4: 11	5: 6: 10	2: 7: 11	2: 4: 13	5: 6: 12	5: 6: 13	4: 4: 8	4: 4: 12	2: 8: 12	6: 6: 11	8: 3: 6	5: 0: 11	
Cac2.1	16: 23: 77	15: 23: 71	19: 24: 83	20: 18: 77	12: 19: 67	17: 28: 84	18: 17: 49	18: 23: 62	21: 28: 84	20: 29: 83	16: 18: 77	13: 20: 69	8: 11: 39	24: 18: 76	14: 16: 71	21: 16: 78	
Cac4.4	25: 13: 56	25: 15: 49	29: 28: 46	29: 24: 38	21: 16: 37	29: 36: 36	21: 22: 28	16: 15: 46	38: 24: 44	38: 23: 43	22: 20: 42	33: 18: 37	10: 17: 16	2: 66: 26	24: 26: 26	29: 21: 37	
Zsp2b	10: 13: 45	5: 12: 45	5: 10: 56	9: 11: 44	10: 11: 39	3: 11: 56	5: 4: 33	4: 10: 41	6:								

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Cen

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14

14

16

18

18

18

4.42

17.76

18.52

34.17

37.78

38.93

42.37

-21.57

-20.00

10.20

14.55

41.67

4.00

-9.59

2.40

6.90

oda9

LC3

GS2

Iso

Cac4.1b

Vsp3

CNC72

ccs1

rpl22a

acti93

KF77

KF83

dhc9

B21

As

Cac4.10

Tctex1																	
Pc1																	
Cac4.1																	
cpx1																	
alad																	
dhc4																	
KF80																	
gsat																	
ac208																	
Yptc6																	
uni3																	
LC6																	
Tua1																	
Cac4.5																	
Hyd1																	
ald																	
KF78																	
KF76																	
oda11																	
A46																	
dhc3																	
KF82																	
Zsp1																	
GP387																	
hsp70a																	
OEE3																	
vflL2R2																	
KF84																	
Zsp2a																	
OEE1																	
KF85	30.60±8.34	29.05±10.29	34.04±9.53														
prk	14.17±6.21	24.75±8.46	23.50±7.64														
oda9		21.81±8.31	23.04±7.66	39.62±9.26													
LC3	57: 4: 33		4.84±4.34	25.34±9.93	29.63±17.14	29.31±9.52	31.46±9.60										
GS2	68: 6: 41	84: 0: 9		26.06±8.83	31.58±14.70	27.73±8.32	32.89±8.58										
Iso	29: 7: 70	38: 2: 33	48: 3: 43		15.00±11.01	8.88±5.36	24.23±8.48										
Cac4.1b	12: 2: 26	11: 0: 16	14: 0: 24	29: 1: 10		6.98±7.58	25.00±14.07										
Vsp3	24: 7: 95	38: 2: 47	50: 1: 59	90: 2: 15	37: 0: 6		15.42±6.81										
CNC72	19: 5: 87	34: 1: 54	40: 1: 73	54: 4: 39	20: 2: 14	76: 2: 29											
ccs1	39: 34: 60	25: 18: 54	32: 26: 65	18: 16: 74	7: 4: 31	19: 20: 87	13: 13: 94			13.18±5.81	29.48±7.68	30.89±8.12					
rpl22a	44: 35: 47	24: 15: 46	30: 19: 60	16: 14: 73	5: 2: 29	15: 17: 89	10: 11: 85	97: 2: 30			27.27±7.90	25.86±7.93					
acti93	59: 35: 36	32: 23: 44	42: 26: 54	13: 19: 70	2: 6: 28	12: 17: 90	12: 17: 86	57: 2: 75	56: 1: 64			9.05±5.19					
KF77	55: 43: 28	26: 19: 40	36: 22: 47	17: 21: 57	6: 6: 23	18: 20: 76	12: 16: 73	50: 3: 70	57: 1: 58	97: 2: 17							
KF83	4: 1: 12	2: 2: 9	3: 1: 9	2: 1: 2	1: 1: 3	4: 3: 9	2: 3: 7	4: 0: 11	6: 0: 10	4: 0: 13	7: 0: 9						
dhc9	49: 61: 20	26: 35: 37	34: 40: 48	11: 23: 72	5: 5: 33	13: 14: 96	12: 7: 98	38: 37: 61	38: 29: 55	47: 52: 33	37: 39: 42	1: 1: 15					
B21	51: 53: 25	29: 29: 38	36: 40: 46	23: 11: 69	8: 4: 31	23: 11: 91	12: 9: 98	41: 37: 57	37: 32: 55	38: 45: 42	37: 39: 42	4: 1: 12	44: 59: 29		10.69±5.00	18.04±7.61	
As	62: 67: 15	30: 37: 40	41: 43: 49	20: 18: 80	6: 5: 33	16: 17: 105	9: 10: 110	46: 39: 67	42: 38: 58	55: 56: 33	47: 45: 39	3: 1: 14	57: 76: 15	118: 4: 23			12.05±6.00
Cac4.10	46: 46: 9	16: 26: 28	20: 30: 37	9: 15: 55	6: 5: 29	11: 12: 72	5: 10: 69	28: 27: 46	33: 29: 33	37: 33: 29	32: 30: 25	3: 2: 8	37: 49: 18	69: 7: 21	90: 5: 17		
Lao	13: 26: 12	10: 19: 22	11: 16: 22	8: 9: 29	0: 1: 9	6: 6: 30	5: 4: 38	13: 18: 22	9: 21: 17	15: 21: 21	11: 19: 17	1: 1: 2	18: 27: 12	39: 4: 5	49: 0: 10	24: 1: 14	
C28	46: 45: 27	20: 22: 31	31: 27: 39	19: 8: 62	6: 4: 26	15: 12: 81	11: 11: 74	25: 26: 65	29: 30: 51	32: 37: 39	36: 35: 35	2: 1: 10	34: 44: 34	67: 3: 40	89: 0: 36	67: 1: 23	
cyc6	7: 6: 29	5: 6: 32	1: 5: 31	3: 5: 32	1: 1: 9	4: 3: 27	9: 6: 25	6: 10: 29	2: 6: 30	6: 13: 29	3: 12: 23	0: 0: 5	10: 8: 31	12: 0: 29	16: 1: 32	12: 2: 22	
und7	37: 39: 52	28: 22: 49	39: 30: 58	16: 20: 67	5: 6: 33	20: 16: 85	18: 10: 91	39: 26: 70	31: 28: 63	42: 33: 53	38: 27: 52	4: 1: 13	45: 41: 48	44: 39: 53	50: 45: 51	30: 24: 42	
S926	21: 16: 32	22: 9: 36	22: 10: 34	10: 4: 35	1: 0: 8	14: 4: 42	13: 4: 45	22: 10: 39	18: 14: 35	25: 16: 36	20: 16: 30	2: 2: 10	22: 17: 33	21: 16: 31	26: 17: 36	17: 10: 21	
Gle	4: 3: 9	3: 3: 9	3: 3: 8	4: 3: 10	0: 0: 0	3: 1: 6	1: 2: 11	3: 5: 7	3: 6: 7	4: 3: 10	4: 4: 9	0: 0: 0	3: 4: 9	3: 3: 6	3: 5: 9	1: 1: 9	
Dhc6	38: 45: 40	16: 27: 41	24: 29: 46	17: 24: 57	5: 8: 26	19: 22: 79	12: 13: 77	19: 35: 67	30: 30: 58	36: 29: 52	37: 30: 45	8: 3: 6	31: 46: 42	40: 35: 40	41: 41: 50	28: 33: 34	
KF79	61: 62: 14	29: 28: 41	41: 33: 45	17: 22: 71	4: 7: 31	16: 20: 92	11: 12: 95	33: 42: 63	41: 35: 55	48: 45: 39	46: 46: 32	3: 1: 10	45: 62: 28	55: 48: 31	60: 61: 28	41: 49: 15	
KF81	5: 5: 105	14: 4: 64	16: 3: 81	22: 9: 62	9: 2: 27	30: 15: 69	20: 14: 63	13: 18: 83	11: 14: 85	13: 9: 92	11: 12: 82	1: 3: 13	8: 9: 96	11: 10: 89	10: 7: 110	5: 4: 80	
Zsp2c	26: 12: 2	12: 5: 10	15: 5: 10	12: 5: 23	0: 0: 0	7: 3: 23	5: 3: 26	12: 8: 18	14: 10: 15	17: 11: 7	20: 11: 9	0: 0: 0	0: 25: 4	10: 17: 6	19: 20: 1	6: 9: 1	
Zsp2d	7: 3: 11	3: 0: 10	5: 0: 8	6: 1: 15	0: 0: 0	4: 2: 12	4: 0: 13	9: 3: 11	8: 3: 12	8: 3: 9	7: 5: 11	0: 0: 0	1: 5: 11	5: 3: 6	6: 5: 13	4: 5: 7	
Cac2.1	25: 19: 75	16: 15: 57	24: 17: 62	13: 19: 69	7: 6: 26	14: 20: 83	17: 12: 74	24: 25: 74	24: 20: 71	23: 29: 63	26: 23: 61	2: 6: 6	20: 18: 83	14: 23: 80	19: 29: 85	16: 23: 54	
Cac4.4	39: 26: 32	21: 13: 31	29: 13: 42	12: 16: 53	8: 6: 21	15: 17: 63	16: 8: 57	23: 22: 50	33: 21: 41	30: 11: 51	28: 18: 39	1: 3: 8	33: 24: 41	28: 28: 37	32: 28: 44	36: 32: 25	
Zsp2b	7: 7: 53	4: 9: 35	5: 8: 42	12: 14: 42	0: 5: 11	10: 13: 40	10: 9: 37	11: 15: 41	6: 14: 47	8: 7: 49	7: 7: 47	0: 0: 0	5: 7: 49	6: 9: 45	6: 8: 59	7: 5: 32	
vfl1a	12: 20: 73	4: 19: 61	13: 25: 62	5: 14: 57	0: 8: 23	6: 20: 70	8: 17: 73	12: 25: 70	12: 21: 63	13: 18: 74	11: 20: 62	2: 8: 6	20: 14: 73	14: 17: 73	18: 18: 79	12: 10: 56	

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Cen

18  
10.17  
Lao

18  
13.10  
C28

18  
31.63  
cyc6

19  
17.23  
und7

19  
21.52  
S926

19  
26.47  
Gle

5a  
-18.66  
Dhc6

5a  
-7.95  
KF79

5a  
43.41  
KF81

A  
-1.22  
Zsp2c

A  
27.08  
Zsp2d

A  
31.72  
Cac2.1

B  
-19.37  
Cac4.4

B  
40.00  
Zsp2b

U  
34.62  
vfl1a

	18 10.17 Lao	18 13.10 C28	18 31.63 cyc6	19 17.23 und7	19 21.52 S926	19 26.47 Gle	5a -18.66 Dhc6	5a -7.95 KF79	5a 43.41 KF81	A -1.22 Zsp2c	A 27.08 Zsp2d	A 31.72 Cac2.1	B -19.37 Cac4.4	B 40.00 Zsp2b	U 34.62 vfl1a
Tctex1															
Pc1															
Cac4.1															
cpx1															
alad															
dhc4															
KF80											27.50±19.47				
gsat															
ac208															
Yptc6															
uni3															
LC6															
Tua1															
Cac4.5															
Hyd1															
ald	32.46±12.09														
KF78															
KF76															
oda11								38.97±7.90							
A46								38.72±8.24							
dhc3															
KF82															
Zsp1															
GP387															
hsp70a															
OEE3															
vflL2R2															
KF84															
Zsp2a															
OEE1															
KF85															
prk															
oda9									32.50±14.44						
LC3															
GS2															
Iso															
Cac4.1b															
Vsp3															
CNC72															
ccs1															
rpl22a															
acti93												39.67±9.95			
KF77															
KF83															
dhc9															
B21	13.54±9.63	20.91±7.56	35.37±14.56												
As	8.47±7.07	14.40±6.12	34.69±13.26												
Cac4.10	20.51±12.61	13.74±7.04													
Lao		23.17±12.85													
C28	23: 1: 17		25.00±14.07												
cyc6	8: 2: 35	19: 1: 16													
und7	20: 12: 18	35: 27: 49	7: 7: 30		11.76±7.62	16.67±18.76									
S926	19: 9: 19	14: 12: 33	11: 7: 22	54: 2: 12		10.00±15.10									
Gle	4: 4: 9	0: 3: 9	3: 2: 7	11: 1: 3	12: 0: 3										
Dhc6	12: 14: 17	31: 34: 44	3: 7: 27	26: 33: 57	11: 20: 32	3: 1: 7		21.14±7.18							
KF79	18: 23: 14	50: 40: 29	8: 7: 32	29: 50: 53	12: 26: 36	2: 6: 9	76: 5: 42								
KF81	3: 7: 34	7: 6: 85	9: 6: 20	14: 16: 83	9: 11: 40	3: 4: 7	13: 15: 83	14: 2: 100							
Zsp2c	9: 6: 1	12: 11: 7	1: 1: 9	12: 9: 14	4: 5: 12	3: 3: 7	6: 13: 13	17: 20: 2	0: 3: 29		28.95±20.29				
Zsp2d	1: 3: 7	5: 4: 9	0: 1: 5	6: 1: 10	3: 3: 5	3: 2: 5	5: 5: 10	5: 6: 10	2: 3: 15	9: 1: 9					
Cac2.1	4: 9: 34	12: 21: 70	5: 8: 29	27: 18: 72	17: 12: 37	1: 3: 9	20: 23: 72	24: 21: 78	16: 21: 66	7: 5: 21	7: 1: 10				
Cac4.4	11: 8: 20	28: 21: 32	9: 4: 22	23: 18: 50	12: 9: 27	3: 1: 9	26: 21: 43	40: 27: 32	11: 11: 62	8: 5: 6	5: 2: 8	13: 19: 60			
Zsp2b	3: 0: 17	6: 7: 41	1: 1: 11	12: 10: 41	4: 4: 17	4: 3: 9	8: 9: 45	6: 10: 53	1: 41: 20	4: 4: 30	7: 4: 12	7: 13: 38	13: 5: 27		
vfl1a	6: 7: 33	17: 20: 53	5: 7: 25	0: 55: 51	2: 36: 26	0: 10: 3	17: 15: 61	20: 16: 71	10: 18: 59	3: 5: 18	1: 2: 10	13: 20: 57	9: 18: 47	10: 4: 28	