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Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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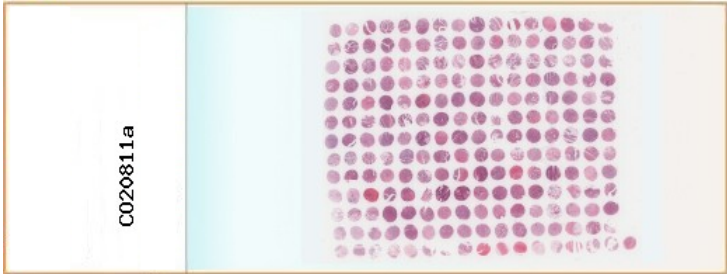
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CO20811a : Colon cancer tissue array with normal colon tissue and adjacent colon tissue as control, including TNM and pathology grade with MMR (MLH1/PMS2/MSH2/MSH6 2017

Ventana MMR kit) IHC results, 208 cases/ 208 cores, replacing CO20811

Microarray Panel	Colon carcinoma tissue microarray with normal tissue and adjacent colon tissue, containing 190 cases of adenocarcinoma, 1 each of papillary adenoma and signet ring cell carcinoma, 12 cases of normal tissue and 4 cases adjacent tissue, single core per case	
Cores	208	
Cases	208	
Row number	13	
Column number	16	
Core Diameter (mm)	1	
Thickness (µm)	5	
Tissue Array Type	FFPE	
Species	Human	
Applications	Routine histology procedures including Immunohistochemistry (IHC) and In Situ Hybridization (ISH), protocols which can be found at our support page.	
Notes	1. TMA slides were sectioned and stored at 4°C and may not be fresh cut, but still suitable for IHC. Please request fresh cut if experiment involves phospho-specific antibodies, RNA studies, FISH or ISH, etc. A minimum of 3 slides per TMA must be purchased to cover the cost of trimming for fresh sectioning. 2. Most TMA slides were not coated with an extra layer of paraffin (tissue cores can be easily seen on the glass). To prevent tissue detachment during antigen retrieval, unbaked slides must be baked for at least 30 to 120 minutes at 60°C. before putting into xylene for de-paraffinization. Baked slides were sent out baked for 2 hours. In the following specsheets, "*" means invalid core; "-" means no applicable or negative in IHC markers.	

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
A	Col	Col	Col	Col	Col	Col	Col	Col	Col	Col	Col	Col	Col	Col	Col	Col
B	Col	Col	Col	Col	Col	Col	Col	Col	Col	Col	Col	Col	Col	Col	Col	Col
C	Col	Col	Col	Col	Col	Col	Col	Col	Col	Col	Col	Col	Col	Col	Col	Col
D	Col	Col	Col	Col	Col	Col	Col	Col	Col	Col	Col	Col	Col	Col	Col	Col
E	Col	Col	Col	Col	Col	Col	Col	Col	Col	Col	Col	Col	Col	Col	Col	Col
F	Col	Col	Col	Col	Col	Col	Col	Col	Col	Col	Col	Col	Col	Col	Col	Col
G	Col	Col	Col	Col	Col	Col	Col	Col	Col	Col	Col	Col	Col	Col	Col	Col
H	Col	Col	Col	Col	Col	Col	Col	Col	Col	Col	Col	Col	Col	Col	Col	Col
I	Col	Col	Col	Col	Col	Col	Col	Col	Col	Col	Col	Col	Col	Col	Col	Col
J	Col	Col	Col	Col	Col	Col	Col	Col	Col	Col	Col	Col	Col	Col	Col	Col
K	Col	Col	Col	Col	Col	Col	Col	Col	Col	Col	Col	Col	Col	Col	Col	Col
L	Col	Col	Col	Col	Col	Col	Col	Col	Col	Col	Col	Col	Col	Col	Col	Col
M	Col	Col	Col	Col	Col	Col	Col	Col	Col	Col	Col	Col	Col	Col	Col	Col

Legend:

Col - Colon

● - Benign tumor, ● - Malignant tumor, ● - NAT, ● - Normal tissue

, tissue IDs are available in exported Excel files.

Pos.	No.	Age	Sex	Organ/Anatomic Site	Pathology diagnosis	TNM	Grade	Stage	Type	Image
A1	1	27	M	Colon	Adenocarcinoma	T4N0M0	2		Malignant	
A2	2	61	M	Colon	Adenocarcinoma	T4N0M0	1		Malignant	
A3	3	62	F	Colon	Adenocarcinoma	T4N0M0	1		Malignant	
A4	4	55	M	Colon	Adenocarcinoma	T2N0M0	1		Malignant	
A5	5	44	M	Colon	Adenocarcinoma	T4N0M0	1		Malignant	
A6	6	46	F	Colon	Adenocarcinoma	T3N0M0	2		Malignant	
A7	7	68	F	Colon	Adenocarcinoma	T3N0M0	2		Malignant	
A8	8	70	M	Colon	Adenocarcinoma	T3N1M0	3		Malignant	
A9	9	39	M	Colon	Adenocarcinoma	T2N0M0	1		Malignant	
A10	10	82	M	Colon	Adenocarcinoma	T4N0M0	1		Malignant	
A11	11	58	F	Colon	Adenocarcinoma	T3N0M0	1		Malignant	
A12	12	73	M	Colon	Adenocarcinoma	T4N0M0	1		Malignant	
A13	13	65	F	Colon	Adenocarcinoma	T3N0M0	1		Malignant	
A14	14	49	M	Colon	Adenocarcinoma	T2N0M0	2		Malignant	
A15	15	40	M	Colon	Adenocarcinoma	T3N0M0	1		Malignant	
A16	16	34	M	Colon	Adenocarcinoma	T3N0M0	1		Malignant	
B1	17	61	M	Colon	Mucinous adenocarcinoma	T3N0M0	1		Malignant	

B2	18	59	M	Colon	Adenocarcinoma(fibrous tissue)	T2N0M0	-	Malignant
B3	19	68	M	Colon	Adenocarcinoma	T3N0M0	1	Malignant
B4	20	62	M	Colon	Adenocarcinoma	T3N0M0	1	Malignant
B5	21	60	F	Colon	Adenocarcinoma	T3N0M0	1	Malignant
B6	22	64	M	Colon	Adenocarcinoma	T3N1M0	3	Malignant
B7	23	47	F	Colon	Adenocarcinoma	T2N0M0	1	Malignant
B8	24	75	M	Colon	Adenocarcinoma	T4N0M0	1	Malignant
B9	25	69	F	Colon	Adenocarcinoma	T2N0M0	1	Malignant
B10	26	55	F	Colon	Adenocarcinoma	T3N0M0	1	Malignant
B11	27	68	M	Colon	Adenocarcinoma	T4N0M0	1	Malignant
B12	28	36	M	Colon	Adenocarcinoma	T3N0M0	1	Malignant
B13	29	72	F	Colon	Adenocarcinoma	T4N0M0	1	Malignant
B14	30	47	M	Colon	Adenocarcinoma	T2N0M0	1	Malignant
B15	31	45	F	Colon	Papillary adenoma	--	1	Benign
B16	32	32	F	Colon	Adenocarcinoma	T3N0M0	1	Malignant
C1	33	51	M	Colon	Adenocarcinoma(sparse)	T3N0M0	1	Malignant
C2	34	66	M	Colon	Adenocarcinoma	T2N0M0	1	Malignant
C3	35	72	M	Colon	Mucinous adenocarcinoma	T2N0M0	1	Malignant
C4	36	51	F	Colon	Mucinous adenocarcinoma	T4N0M0	1	Malignant
C5	37	58	F	Colon	Adenocarcinoma(sparse)	T3N0M0	1	Malignant
C6	38	66	M	Colon	Adenocarcinoma	T3N0M0	1	Malignant
C7	39	46	M	Colon	Mucinous adenocarcinoma	T2N1M0	1	Malignant
C8	40	67	F	Colon	Mucinous adenocarcinoma	T3N0M0	1	Malignant
C9	41	39	M	Colon	Mucinous adenocarcinoma	T3N0M0	1	Malignant
C10	42	65	F	Colon	Mucinous adenocarcinoma	T3N0M0	1	Malignant
C11	43	74	F	Colon	Mucinous adenocarcinoma	T3N0M0	1	Malignant
C12	44	37	M	Colon	Mucinous adenocarcinoma	T3N0M0	1	Malignant
C13	45	58	M	Colon	Mucinous adenocarcinoma	T4N1M1	1	Malignant
C14	46	74	M	Colon	Mucinous adenocarcinoma	T4N0M0	1	Malignant
C15	47	59	F	Colon	Mucinous adenocarcinoma	T4N0M0	1	Malignant
C16	48	60	M	Colon	Adenocarcinoma	T4N0M0	1	Malignant
D1	49	45	F	Colon	Adenocarcinoma	T3N0M0	1	Malignant
D2	50	68	M	Colon	Adenocarcinoma	T4N0M0	1	Malignant
D3	51	43	F	Colon	Adenocarcinoma(blank)	T4N0M0	*	Malignant
D4	52	72	M	Colon	Adenocarcinoma	T3N0M0	1	Malignant
D5	53	36	M	Colon	Adenocarcinoma(fibrous tissue)	T4N0M0	-	Malignant
D6	54	44	F	Colon	Adenocarcinoma	T4N0M0	1	Malignant
D7	55	37	M	Colon	Adenocarcinoma	T4N1M0	2	Malignant
D8	56	77	F	Colon	Adenocarcinoma(mucosal tissue)	T2N0M0	-	Malignant
D9	57	52	F	Colon	Adenocarcinoma	T3N0M0	1	Malignant
D10	58	26	M	Colon	Adenocarcinoma	T3N2M1	1	Malignant
D11	59	55	F	Colon	Adenocarcinoma	T4N0M0	1	Malignant
D12	60	37	M	Colon	Adenocarcinoma	T2N0M0	2	Malignant
D13	61	73	M	Colon	Adenocarcinoma	T3N0M0	2	Malignant
D14	62	57	F	Colon	Adenocarcinoma	T3N0M0	2	Malignant
D15	63	57	M	Colon	Adenocarcinoma	T2N0M0	1	Malignant
D16	64	57	M	Colon	Adenocarcinoma	T3N0M0	1	Malignant
E1	65	59	M	Colon	Adenocarcinoma	T3N0M0	2	Malignant
E2	66	57	F	Colon	Adenocarcinoma	T3N0M0	2	Malignant
E3	67	61	F	Colon	Adenocarcinoma(fibrous tissue)	T3N0M0	-	Malignant
E4	68	63	M	Colon	Adenocarcinoma	T2N0M0	2	Malignant
E5	69	30	M	Colon	Adenocarcinoma	T3N0M0	2	Malignant
E6	70	77	M	Colon	Adenocarcinoma(tumor necrosis)	T3N0M0	-	Malignant
E7	71	52	M	Colon	Adenocarcinoma	T2N0M0	3	Malignant
E8	72	62	M	Colon	Adenocarcinoma	T2N0M0	2	Malignant
E9	73	61	M	Colon	Adenocarcinoma	T2N0M0	2	Malignant
E10	74	54	M	Colon	Adenocarcinoma	T3N0M0	1	Malignant
E11	75	90	M	Colon	Adenocarcinoma	T2N0M0	1	Malignant
E12	76	70	M	Colon	Adenocarcinoma	T2N0M0	1	Malignant
E13	77	73	M	Colon	Adenocarcinoma	T3N0M0	1	Malignant
E14	78	72	F	Colon	Adenocarcinoma	T2N0M0	1	Malignant
E15	79	74	M	Colon	Adenocarcinoma	T3N0M1	1	Malignant
E16	80	53	M	Colon	Adenocarcinoma	T3N0M0	1	Malignant
F1	81	54	F	Colon	Adenocarcinoma	T4N0M0	2	Malignant
F2	82	62	M	Colon	Adenocarcinoma	T1N0M0	1	Malignant
F3	83	44	M	Colon	Adenocarcinoma	T3N0M0	1	Malignant
F4	84	60	M	Colon	Adenocarcinoma	T3N0M0	1	Malignant
F5	85	49	F	Colon	Adenocarcinoma	T4N0M0	2	Malignant
F6	86	56	F	Colon	Adenocarcinoma	T4N0M0	2	Malignant
F7	87	64	F	Colon	Adenocarcinoma	T2N0M0	1	Malignant

F8	88	29	F	Colon	Adenocarcinoma	T3N0M0	2		Malignant
F9	89	48	F	Colon	Adenocarcinoma	T3N0M0	2		Malignant
F10	90	60	M	Colon	Adenocarcinoma(blank)	T3N0M0	-		Malignant
F11	91	47	M	Colon	Adenocarcinoma	T4N1M0	2		Malignant
F12	92	67	F	Colon	Adenocarcinoma	T2N0M0	1		Malignant
F13	93	48	M	Colon	Adenocarcinoma	T2N0M0	1		Malignant
F14	94	64	M	Colon	Adenocarcinoma	T4N0M0	1		Malignant
F15	95	54	M	Colon	Adenocarcinoma	T2N0M0	2		Malignant
F16	96	75	F	Colon	Adenocarcinoma	T2N0M0	2		Malignant
G1	97	68	M	Colon	Adenocarcinoma	T2N0M0	2		Malignant
G2	98	46	M	Colon	Adenocarcinoma	T3N0M0	2		Malignant
G3	99	78	M	Colon	Adenocarcinoma	T2N0M0	2		Malignant
G4	100	42	F	Colon	Adenocarcinoma	T3N0M0	2		Malignant
G5	101	52	M	Colon	Adenocarcinoma	T3N0M0	2		Malignant
G6	102	81	M	Colon	Adenocarcinoma	T2N0M0	2		Malignant
G7	103	32	M	Colon	Adenocarcinoma(fibrous tissue)	T3N0M0	-		Malignant
G8	104	36	F	Colon	Adenocarcinoma	T3N0M0	2		Malignant
G9	105	47	M	Colon	Adenocarcinoma(spsrse)	T3N0M0	2		Malignant
G10	106	43	M	Colon	Adenocarcinoma	T3N0M0	2		Malignant
G11	107	81	M	Colon	Adenocarcinoma	T2N0M0	2		Malignant
G12	108	63	F	Colon	Adenocarcinoma	T4N0M0	2		Malignant
G13	109	60	M	Colon	Adenocarcinoma	T3N0M0	2		Malignant
G14	110	62	F	Colon	Adenocarcinoma	T3N0M0	2		Malignant
G15	111	64	M	Colon	Adenocarcinoma	T2N0M0	2		Malignant
G16	112	65	M	Colon	Adenocarcinoma	T3N0M0	2		Malignant
H1	113	86	M	Colon	Adenocarcinoma	T4N1M0	2		Malignant
H2	114	48	F	Colon	Adenocarcinoma	T4N1M0	2		Malignant
H3	115	44	M	Colon	Adenocarcinoma	T4N0M0	3		Malignant
H4	116	75	M	Colon	Adenocarcinoma	T4N0M0	2		Malignant
H5	117	60	M	Colon	Adenocarcinoma	T3N1M0	2		Malignant
H6	118	70	F	Colon	Adenocarcinoma	T3N0M0	2		Malignant
H7	119	67	M	Colon	Adenocarcinoma	T4N0M0	2		Malignant
H8	120	57	M	Colon	Adenocarcinoma	T3N0M0	2		Malignant
H9	121	33	F	Colon	Adenocarcinoma	T3N0M0	2		Malignant
H10	122	75	M	Colon	Adenocarcinoma	T4N0M0	2		Malignant
H11	123	31	M	Colon	Adenocarcinoma	T4N0M0	1		Malignant
H12	124	67	F	Colon	Adenocarcinoma	T3N0M0	2		Malignant
H13	125	66	F	Colon	Adenocarcinoma	T2N0M0	1		Malignant
H14	126	72	M	Colon	Adenocarcinoma	T3N0M0	1		Malignant
H15	127	53	F	Colon	Adenocarcinoma	T3N0M0	1		Malignant
H16	128	76	F	Colon	Adenocarcinoma	T2N0M0	2		Malignant
I1	129	69	M	Colon	Adenocarcinoma	T4N0M0	2		Malignant
I2	130	35	F	Colon	Adenocarcinoma	T3N0M0	2		Malignant
I3	131	60	M	Colon	Adenocarcinoma	T4N0M0	2		Malignant
I4	132	62	M	Colon	Adenocarcinoma	T4N0M0	1		Malignant
I5	133	48	M	Colon	Adenocarcinoma	T2N0M0	1		Malignant
I6	134	55	F	Colon	Adenocarcinoma	T4N0M0	1		Malignant
I7	135	64	F	Colon	Adenocarcinoma	T2N0M0	2		Malignant
I8	136	58	M	Colon	Adenocarcinoma	T2N0M0	2		Malignant
I9	137	41	F	Colon	Adenocarcinoma	T2N0M0	1		Malignant
I10	138	46	M	Colon	Adenocarcinoma	T3N0M0	2		Malignant
I11	139	63	F	Colon	Adenocarcinoma(fibrous tissue)	T3N0M0	-		Malignant
I12	140	57	F	Colon	Adenocarcinoma	T3N0M0	2		Malignant
I13	141	48	M	Colon	Adenocarcinoma	T3N0M0	2		Malignant
I14	142	66	M	Colon	Adenocarcinoma	T3N0M0	2		Malignant
I15	143	66	M	Colon	Adenocarcinoma	T4N0M0	1		Malignant
I16	144	64	F	Colon	Adenocarcinoma	T2N0M0	2		Malignant
J1	145	77	F	Colon	Adenocarcinoma	T3N1M0	2		Malignant
J2	146	74	M	Colon	Adenocarcinoma	T3N0M0	2		Malignant
J3	147	61	F	Colon	Adenocarcinoma(tumor necrosis)	T2N1M0	-		Malignant
J4	148	64	M	Colon	Adenocarcinoma	T2N0M0	1		Malignant
J5	149	45	M	Colon	Adenocarcinoma	T3N0M0	2		Malignant
J6	150	50	M	Colon	Adenocarcinoma	T3N0M0	1		Malignant
J7	151	63	F	Colon	Adenocarcinoma	T3N0M0	1		Malignant
J8	152	46	F	Colon	Adenocarcinoma	T2N0M0	1		Malignant
J9	153	60	M	Colon	Adenocarcinoma	T3N0M0	1		Malignant
J10	154	62	F	Colon	Adenocarcinoma	T3N0M0	1		Malignant
J11	155	80	M	Colon	Adenocarcinoma	T2N0M0	1		Malignant
J12	156	48	M	Colon	Adenocarcinoma	T2N0M0	1		Malignant
J13	157	23	M	Colon	Mucinous adenocarcinoma	T3N0M0	1		Malignant

J14	158	46	M	Colon	Mucinous adenocarcinoma(fibrous tissue)	T3N1M0	-		Malignant
J15	159	60	F	Colon	Mucinous adenocarcinoma	T2N0M0	1		Malignant
J16	160	74	F	Colon	Adenocarcinoma(fibrous tissue)	T3N0M0	-		Malignant
K1	161	59	F	Colon	Mucinous adenocarcinoma	T3N1M0	-		Malignant
K2	162	69	F	Colon	Adenocarcinoma	T4N0M0	1		Malignant
K3	163	53	M	Colon	Mucinous adenocarcinoma	T3N0M0	2		Malignant
K4	164	51	M	Colon	Adenocarcinoma	T2N0M0	2		Malignant
K5	165	60	M	Colon	Adenocarcinoma	T2N0M0	2		Malignant
K6	166	56	F	Colon	Adenocarcinoma	T4N0M0	2		Malignant
K7	167	56	M	Colon	Adenocarcinoma	T3N0M0	2		Malignant
K8	168	80	F	Colon	Adenocarcinoma	T2N0M0	3		Malignant
K9	169	47	M	Colon	Adenocarcinoma	T2N0M0	2		Malignant
K10	170	68	M	Colon	Adenocarcinoma	T4N0M0	2		Malignant
K11	171	78	M	Colon	Adenocarcinoma	T3N0M0	3		Malignant
K12	172	50	M	Colon	Adenocarcinoma	T4N0M0	3		Malignant
K13	173	47	M	Colon	Mucinous adenocarcinoma	T3N0M0	2		Malignant
K14	174	46	M	Colon	Adenocarcinoma	T4N0M0	3		Malignant
K15	175	52	M	Colon	Adenocarcinoma	T3N0M0	3		Malignant
K16	176	50	M	Colon	Adenocarcinoma	T4N0M0	3		Malignant
L1	177	68	M	Colon	Mucinous adenocarcinoma	T3N0M0	2		Malignant
L2	178	37	M	Colon	Adenocarcinoma	T4N1M1	2		Malignant
L3	179	67	F	Colon	Adenocarcinoma(blank)	T3N0M0	-		Malignant
L4	180	48	M	Colon	Adenocarcinoma	T2N0M0	3		Malignant
L5	181	38	M	Colon	Adenocarcinoma	T4N1M0	3		Malignant
L6	182	46	M	Colon	Adenocarcinoma	T3N0M0	3		Malignant
L7	183	77	M	Colon	Adenocarcinoma	T4N0M0	3		Malignant
L8	184	39	M	Colon	Adenocarcinoma	T2N0M0	3		Malignant
L9	185	35	M	Colon	Adenocarcinoma	T2N0M0	3		Malignant
L10	186	65	F	Colon	Adenocarcinoma	T2N0M0	3		Malignant
L11	187	74	M	Colon	Adenocarcinoma	T3N0M0	3		Malignant
L12	188	56	M	Colon	Adenocarcinoma	T3N0M1	3		Malignant
L13	189	50	F	Colon	Adenocarcinoma	T2N0M0	3		Malignant
L14	190	35	M	Colon	Signet ring cell carcinoma	T3N0M0	-		Malignant
L15	191	31	M	Colon	Adenocarcinoma	T4N0M0	3		Malignant
L16	192	59	M	Colon	Mucinous adenocarcinoma	T3N0M0	3		Malignant
M1	193	25	M	Colon	Colon tissue	-	-		Normal
M2	194	35	M	Colon	Colon tissue	-	-		Normal
M3	195	30	M	Colon	Colon tissue	-	-		Normal
M4	196	33	M	Colon	Colon tissue	-	-		Normal
M5	197	30	M	Colon	Colon tissue	-	-		Normal
M6	198	35	M	Colon	Colon tissue	-	-		Normal
M7	199	30	M	Colon	Colon tissue	-	-		Normal
M8	200	35	M	Colon	Colon tissue	-	-		Normal
M9	201	32	M	Colon	Colon tissue(smooth muscle tissue)	-	-		Normal
M10	202	31	M	Colon	Colon tissue(smooth muscle tissue)	-	-		Normal
M11	203	30	M	Colon	Colon tissue(smooth muscle tissue)	-	-		Normal
M12	204	33	M	Colon	Colon tissue(smooth muscle tissue)	-	-		Normal
M13	205	51	M	Colon	Cancer adjacent colon tissue	-	-		NAT
M14	206	68	M	Colon	Cancer adjacent colon tissue(smooth muscle tissue)	-	-		NAT
M15	207	52	M	Colon	Cancer adjacent colon tissue	-	-		NAT
M16	208	35	M	Colon	Cancer adjacent colon tissue	-	-		NAT
-	0	55	F	liver	Hepatocellular liver cancer (tissue marker)	T3N0M0	3		Malignant

No.	PMS2	MLH1	MSH6	MSH2
1	++	+	+	-
2	+++	+++	++	++
3	++	+++	-	-
4	+++	+++	+	-
5	+	+++	-	-
6	+++	+++	+++	+++
7	+	+++	++	+

No.	PMS2	MLH1	MSH6	MSH2
8	+	++	+	+
9	-	++	+++	+++
10	-	-	+++	++
11	+	+	+++	+++
12	++	+++	++	+++
13	+	++	++	++
14	-	+	+++	+++
15	-	++	++	++
16	+++	+++	+	+
17	+++	+++	+++	+++
18	*	+++	+++	+++
19	++	+++	++	++
20	+++	+++	++	++
21	++	+++	++	++
22	+++	+++	++	++
23	-	-	++	+
24	+++	+++	+++	+++
25	+++	+++	+++	+++
26	+++	+++	+	-
27	-	-	-	-
28	++	++	-	-
29	+++	+++	++	++
30	+++	+++	+++	+++
31	+++	+++	++	++
32	++	+++	+	+
33	++	*	*	*
34	+++	+++	++	++
35	+++	+++	+++	++
36	+++	+++	++	+
37	+	*	*	*
38	-	-	++	+++
39	-	+	++	++
40	++	+++	++	++
41	-	-	+++	+++
42	-	+	+++	+++
43	+++	+++	+++	+++
44	+	+	+++	++
45	++	++	++	++
46	++	++	++	+

No.	PMS2	MLH1	MSH6	MSH2
47	+	++	+	+
48	+++	+++	+++	+++
49	+	+	++	++
50	+++	+++	+++	+++
51	*	*	*	*
52	-	-	++	+++
53	*	*	*	*
54	+	+	-	+
55	+	+	+	-
56	+	+	+	+
57	++	++	+	+
58	+++	+++	+++	++
59	+++	+++	++	+
60	-	-	+++	+++
61	+++	+++	+++	+++
62	+++	+++	++	+
63	+++	+++	++	+++
64	+++	+++	+++	+++
65	+	+	+	++
66	+++	+++	+++	+++
67	*	*	*	*
68	+++	+++	+++	+++
69	++	++	++	+
70	*	*	*	*
71	-	-	+	+
72	-	+	+	+
73	+++	+++	+++	++
74	+	+	-	-
75	++	+++	+	++
76	+++	+++	+	++
77	+++	+++	+++	+++
78	+++	+++	+++	+++
79	++	++	++	+
80	+	++	+	+
81	+	++	+	+
82	+++	+++	+++	+++
83	+++	+++	+++	+++
84	+++	+++	+++	+++
85	+++	+++	++	++

No.	PMS2	MLH1	MSH6	MSH2
86	+++	+++	+	+
87	+++	+++	+++	+++
88	-	+	-	-
89	+++	+++	+++	+++
90	*	*	*	*
91	+++	+++	+	+
92	+++	+++	++	++
93	+++	+++	+	-
94	+++	+++	++	++
95	+++	+++	++	++
96	+++	+++	+++	+++
97	+++	+++	++	+
98	+++	+++	++	+
99	+++	+++	+++	+++
100	++	+++	++	+
101	+	+	+	++
102	+++	+++	+++	+++
103	*	*	*	*
104	+++	+++	+++	+++
105	++	+	+	+
106	+++	+++	+++	++
107	+++	+++	+++	++
108	-	-	+++	++
109	-	-	-	++
110	+++	+++	+++	+++
111	+++	+++	+++	+++
112	+++	++	++	++
113	++	++	++	++
114	+	+	+	+
115	+++	+++	+++	+++
116	+	++	+	+
117	+++	+++	+++	+++
118	++	++	+	+
119	-	-	+++	+++
120	+++	+++	+++	++
121	+++	+++	++	++
122	+++	+++	++	++
123	-	+	-	-
124	+++	+++	-	-

No.	PMS2	MLH1	MSH6	MSH2
125	+++	++	++	++
126	+++	+++	++	+++
127	+	++	++	+
128	+++	+++	+++	+++
129	-	-	-	-
130	+++	+++	+++	+++
131	+++	+++	+++	+++
132	+++	+++	-	+
133	+++	+++	+++	+++
134	+	++	+	+
135	+++	+++	+++	+++
136	+++	+	+	++
137	+++	+++	+++	+++
138	+++	+++	+	-
139	*	*	*	*
140	++	++	+	++
141	-	+	+++	+++
142	++	+++	++	++
143	++	++	++	+++
144	+++	+++	++	++
145	-	-	+++	+
146	+++	+++	+++	+++
147	*	+	+	*
148	++	++	+	++
149	+++	+++	+++	+++
150	+	+	-	-
151	++	+++	+++	+++
152	+++	+++	+++	+++
153	++	+++	+	+
154	-	-	+++	+++
155	+++	+++	+++	+++
156	-	-	++	+
157	+	++	++	++
158	*	*	*	*
159	+++	+++	+++	+++
160	*	*	*	*
161	-	+	+	-
162	+	+	++	+
163	++	++	++	++

No.	PMS2	MLH1	MSH6	MSH2
164	+++	+++	+++	+++
165	+++	+++	+++	+++
166	++	++	++	++
167	+++	+++	+++	+++
168	-	-	+++	+++
169	+++	+++	+++	+++
170	+++	+++	+++	+++
171	-	-	+++	+++
172	-	-	++	+
173	+++	+++	+++	+++
174	-	++	++	++
175	++	++	+	-
176	-	+	+++	+++
177	-	-	+	+
178	++	+	+	+
179	*	*	*	*
180	+	+++	++	+
181	+++	+++	+	-
182	++	++	+	-
183	-	-	+++	+++
184	-	-	+	+
185	+++	+++	++	++
186	+	++	++	+
187	-	+	+++	+++
188	++	++	++	+
189	+	++	+++	++
190	++	+++	+++	++
191	+++	+++	+++	+++
192	+++	+++	++	++
193	++	++	++	++
194	++	++	++	++
195	++	++	++	++
196	+	*	*	*
197	+	+	+	+
198	++	++	++	++
199	+	++	++	++
200	+	++	++	++
201	*	*	*	*
202	*	*	*	*

No.	PMS2	MLH1	MSH6	MSH2
203	*	*	*	*
204	*	*	*	*
205	++	++	++	++
206	*	*	*	*
207	+	+	+	+
208	++	++	+	+

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