

Figure S1 Transcriptional landscape and survival-predictive capacity of the identified prognostic genes in CRC. (A) Differential expression of prognostic genes in different risk groups. (B) Independent survival analysis of seven prognostic genes.

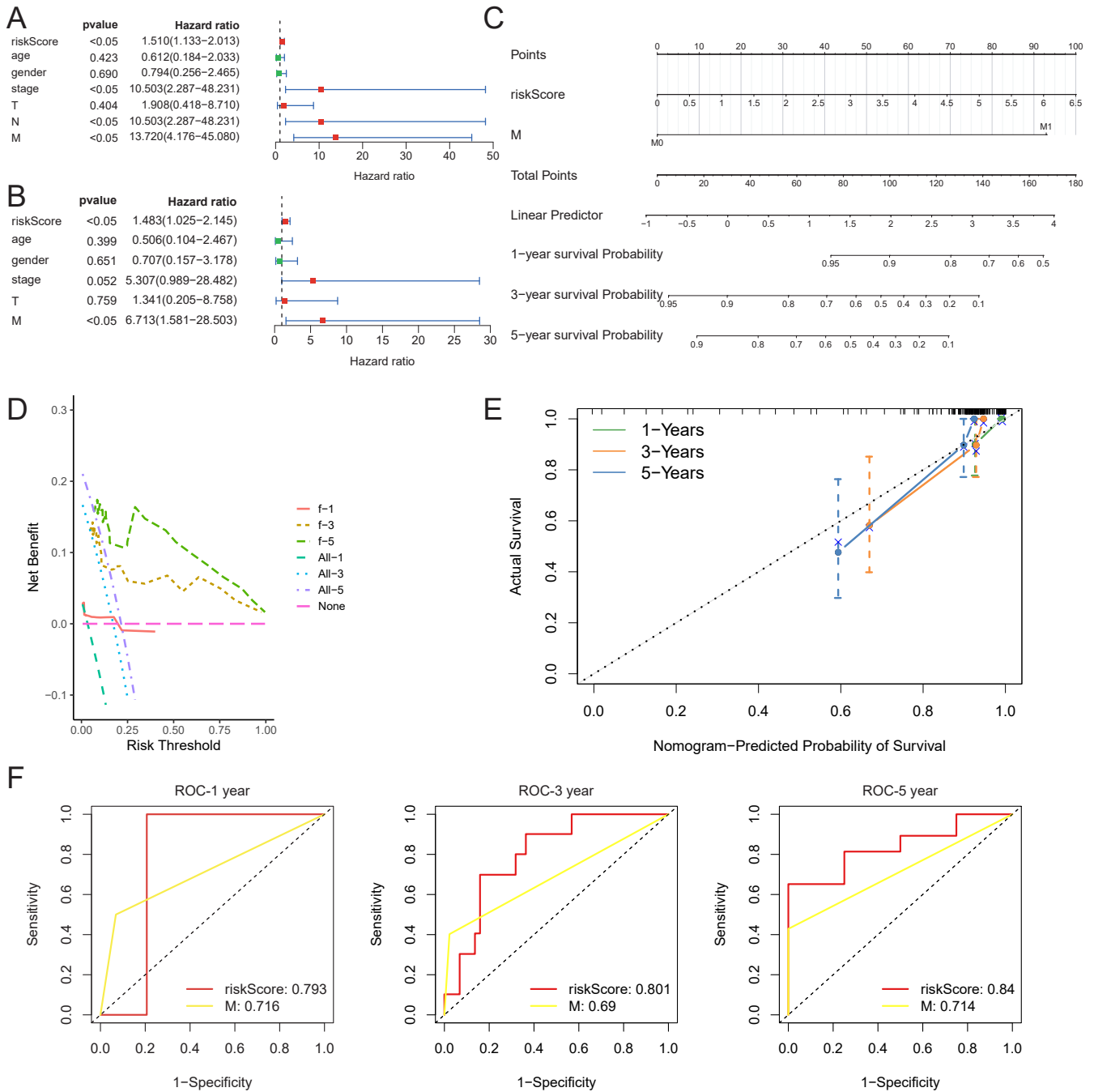


Figure S2 Construction and validation of a CRC prognostic nomogram in the external validation set GSE12945 (A) Univariate Cox analysis. (B) Multivariate Cox analysis. (C) Nomogram drawing on clinical characteristics and risk score. (D) DCA curve. (E) Calibration curve of nomogram. (F) ROC curves evaluating the predictive accuracy of the risk score and clinical parameters.

Table S1 Correlation matrix of prognostic gene expression and antineoplastic drug sensitivity via CellMiner analysis

Gene	Drug	cor	P value
ELANE	Artemether	0.690654	1.02E-09
TERT	Methylprednisolone	0.663545	7.56E-09
ELANE	Imexon	0.601561	3.71E-07
TERT	Nelarabine	0.572969	1.72E-06
TERT	Hydroxyurea	0.550832	5.11E-06
TERT	Fluphenazine	0.545547	6.55E-06
TERT	Cytarabine	0.54554	6.55E-06
MMP10	PF-04217903	0.545456	6.58E-06
TERT	IDOXURIDINE	0.535202	1.05E-05
TERT	Fludarabine	0.533798	1.12E-05
ELANE	Cyclophosphamide	0.518394	2.21E-05
ELANE	Hydroxyurea	0.509903	3.16E-05
TERT	Ancitabine hydrochloride	0.505132	3.85E-05
ELANE	Nandrolone phenpropionate	0.497162	5.32E-05
TERT	Thiotepa	0.496052	5.57E-05
TERT	Chlorambucil	0.495103	5.78E-05
TERT	Triethylenemelamine	0.491287	6.72E-05
TERT	Zalcitabine	0.490798	6.85E-05
TERT	Pipobroman	0.474094	0.00013
TERT	Chelerythrine	0.473062	0.000135
TERT	ANCITABINE HYDROCHLORIDE	0.462383	0.0002
TERT	ZM-336372	0.460391	0.000214
ELANE	Carboplatin	0.459884	0.000218
TERT	ST-3595	0.459643	0.00022
ELANE	AZD-8055	-0.45469	0.000263
TERT	tfd	0.450265	0.000306
TERT	DIGOXIN	0.449339	0.000316
TERT	Etoposide	0.448052	0.000331
TERT	Uracil mustard	0.444764	0.00037
TERT	Cisplatin	0.440559	0.000427
TERT	Ribavirin	0.438009	0.000465
TERT	Asparaginase	0.431066	0.000585
TERT	Cyclophosphamide	0.430558	0.000595
TERT	Gemcitabine	0.430501	0.000596
ELANE	Chelerythrine	0.42855	0.000635

Table S1 (continued)

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Gene	Drug	cor	P value
TERT	LMP-400	0.428446	0.000637
TERT	Idarubicin	0.428359	0.000639
TERT	METHOTREXATE	0.426865	0.000671
TERT	Irinotecan	0.425095	0.00071
TERT	Tegafur	0.417666	0.000899
TERT	Nitrogen mustard	0.414571	0.00099
TERT	M-AMSA	0.413509	0.001024
TERT	RH1	0.413491	0.001024
TERT	Raltitrexed	0.410812	0.001112
TERT	Dexamethasone Decadron	0.409503	0.001158
TERT	5-Fluoro deoxy uridine 10mer	0.408842	0.001182
MMP10	Vertex ATR inhibitor Cpd 45	-0.40828	0.001202
TERT	TAK Plk inhibitor	0.407165	0.001244
TERT	Pluripotin	-0.40254	0.00143
TERT	TRIMETREXATE GLUCURONATE	0.400051	0.00154
TERT	Camptothecin	0.399965	0.001544
MMP10	Intedanib	-0.39904	0.001587
SNAI1	Motesanib	0.397733	0.00165
TERT	Melphalan	0.397064	0.001683
TERT	Cladribine	0.395163	0.001779
ELANE	auranofin	0.392368	0.001931
TERT	malacid	0.392197	0.00194
TERT	6-THIOGUANINE	0.388508	0.002158
CCNF	5-Fluoro deoxy uridine 10mer	0.387952	0.002193
ELANE	Kahalide F	-0.38737	0.00223
TERT	Teniposide	0.38566	0.002341
TERT	CAMPTOTHECIN	0.377979	0.002906
MMP10	AZACITIDINE	-0.37736	0.002956
SULT1B1	Barasertib	0.376048	0.003065
TERT	Karenitecin	0.375934	0.003075
TERT	Oxaliplatin	0.374846	0.003169
CCNF	Acrichine	0.37376	0.003265
ELANE	H-89	-0.37158	0.003465
TERT	FENRETINIDE	0.368538	0.003763

Table S1 (continued)

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Gene	Drug	cor	P value
TERT	Triapine	0.365869	0.004043
CCNF	VE-821	0.365058	0.004132
ELANE	Pipobroman	0.362635	0.004407
TERT	AZD-8055	-0.36263	0.004407
TERT	Carboplatin	0.361766	0.004509
SNAI1	Lenvatinib	0.361494	0.004542
ELANE	BMS-536924	0.360209	0.004698
SULT1B1	Dexrazoxane	0.359243	0.004819
TERT	Fenretinide	0.357066	0.005101
CCNF	ANCITABINE HYDROCHLORIDE	0.355317	0.005338
TERT	GSK-461364	0.355278	0.005343
TERT	SNS-314	0.355179	0.005357
TERT	BN-2629	0.353206	0.005637
TERT	Daunorubicin	0.35319	0.005639
SNAI1	rifa	-0.35252	0.005737
TERT	Barasertib	0.349878	0.006138
ELANE	Megestrol acetate	0.349509	0.006196
TERT	PX-316	0.347069	0.006591
CCNF	6-THIOGUANINE	0.345363	0.00688
TERT	Artemether	0.344526	0.007026
TERT	Mitomycin	0.343959	0.007126
CCNF	6-MERCAPTOPYRINE	0.343313	0.007242
TERT	DACARBAZINE	0.342324	0.007423
SULT1B1	DECITABINE	0.341343	0.007606
TERT	Valrubicin	0.34106	0.007659
ELANE	OSI-027	-0.34002	0.007859
ELANE	GW-5074	-0.33892	0.008075
ELANE	Quizartinib	-0.33729	0.008404
ELANE	Masoprocol	0.336913	0.008482
SULT1B1	SNS-314	0.336705	0.008525
CCNF	Cladribine	0.336655	0.008536
TERT	TAK-960 analog	0.336648	0.008537
CCNF	Cytarabine	0.333763	0.009157
TERT	Clofarabine	0.333105	0.009304

Table S1 (continued)

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Gene	Drug	cor	P value
CCNF	Fludarabine	0.331994	0.009557
TERT	OUABAIN	0.331688	0.009627
CCNF	Gemcitabine	0.331513	0.009668
TERT	Carmustine	0.330422	0.009924
ELANE	Uracil mustard	0.330335	0.009945
ELANE	Thiotepa	0.330208	0.009975
TERT	Floxuridine	0.327589	0.010618
CCNF	IDOXURIDINE	0.327536	0.010631
TERT	DMAPT	0.327483	0.010644
TERT	LMP776	0.327205	0.010715
TERT	Dexrazoxane	0.326914	0.010789
CCNF	Methylprednisolone	0.324908	0.011312
TERT	melbex	0.324381	0.011453
ELANE	Idarubicin	0.324055	0.011541
ELANE	Lapachone	0.324044	0.011544
ELANE	XR-11576	-0.32275	0.011898
TERT	Arsenic trioxide	0.321949	0.012124
TERT	Parthenolide	0.321703	0.012193
SNAI1	BP-1-102	-0.32106	0.012378
CCNF	6-Thioguanine	0.321009	0.012392
TERT	Masoprocol	0.320283	0.012602
TERT	Epirubicin	0.31838	0.013169
CCNF	Raltitrexed	0.317851	0.01333
TERT	MITOXANTRONE	0.317807	0.013344
MMP10	1st Precursor Intermediate to TDP 665759	0.317727	0.013368
TERT	Volasertib	0.315848	0.013957
TERT	Sonolisib	-0.31557	0.014047
ELANE	Parthenolide	0.314703	0.014326
TERT	ciclosporin	0.314228	0.014482
TERT	Ifosfamide	0.314007	0.014555
SULT1B1	7-Hydroxystaurosporine	-0.31302	0.014884
TERT	Topotecan	0.312171	0.015173
ELANE	Melphalan	0.311066	0.015556
TERT	Pictilisib	-0.31104	0.015565

Table S1 (continued)

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Gene	Drug	cor	P value
ELANE	Carmustine	0.311032	0.015568
SNAI1	Caffeic acid	0.310951	0.015596
TERT	Lomustine	0.309939	0.015955
ELANE	Cisplatin	0.309533	0.016101
TERT	8-Chloro-adenosine	0.308788	0.016371
SULT1B1	Amonafide	0.307821	0.016728
ELANE	DMAPT	0.306707	0.017148
TERT	6-MERCAPTOPYRIMIDINE	0.306533	0.017214
TERT	Des-fluoro-TAK-960	0.304419	0.018037
ELANE	Triethylenemelamine	0.301778	0.019114
SNAI1	Sonidegib	0.29942	0.02012
ELANE	Fenretinide	0.299079	0.020269
TERT	Kahalide F	-0.29884	0.020374
TERT	Mitoxantrone	0.296594	0.021385
MMP10	AR-67	-0.29458	0.022328
ELANE	Chlorambucil	0.294059	0.022576
TERT	DAUNORUBICIN	0.293977	0.022616
TERT	Calusterone	0.293957	0.022625
TERT	ENMD-2076 Precursor	-0.29332	0.022935
TERT	CH-5132799	-0.2921	0.023536
SNAI1	JNJ-38877605	0.291433	0.023869
SNAI1	Palbociclib	-0.29134	0.023918
MMP10	Alvocidib	-0.28792	0.025695
CCNF	JNJ-28312141	0.287605	0.025866
MMP10	Azacitidine	-0.28698	0.026204
TERT	JNJ-38877605	-0.28622	0.026624
SULT1B1	RAPAMYCIN	-0.28526	0.027154
MMP10	AMONAFIDE	-0.28441	0.027637
TERT	Docetaxel	0.282927	0.028494
SULT1B1	Hydrastinine HCl	0.282522	0.028733
CCNF	MK-8033	0.282301	0.028863
MMP10	Lapatinib	0.28181	0.029155
TERT	AMG-900	0.28143	0.029382
SNAI1	CCT-128930	0.280795	0.029765

Table S1 (continued)

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Gene	Drug	cor	P value
TERT	Pemetrexed	0.280778	0.029775
CCNF	ZM-336372	0.280028	0.030233
TERT	DECITABINE	0.279888	0.030319
TERT	Pevonedistat	0.279602	0.030497
MMP10	BP-1-102	-0.27937	0.030642
MMP10	Sunitinib	-0.27736	0.031913
MMP10	HYPOTHEMYCIN	-0.277	0.032145
TERT	7-Ethyl-10-hydroxycamptothecin	0.276887	0.032217
TERT	timazid	0.276187	0.032674
TERT	Fluorouracil	0.275674	0.033012
CCNF	AMG-458	0.275629	0.033042
MMP10	Cpd-401	0.274989	0.033467
SULT1B1	AMG-900	0.2749	0.033527
ELANE	Buthionine sulphoximine	0.274745	0.033631
TERT	pralatrexate	0.27467	0.033682
MMP10	Afatinib	0.274227	0.033981
SNAI1	AMG-458	0.273947	0.034171
CCNF	LY-2606368	0.273746	0.034308
TERT	Belinostat	0.273548	0.034444
SULT1B1	Alisertib	0.273502	0.034475
MMP10	Clofarabine	-0.27267	0.035048
SULT1B1	PENTAMIDINE ISETHIONATE	0.272088	0.035457
TERT	Cediranib	-0.27182	0.035647
TERT	Saracatinib	-0.27168	0.035744
ELANE	Etoposide	0.270868	0.036322
SULT1B1	Rapamycin	-0.26972	0.037154
ELANE	Linsitinib	0.269616	0.037228
SNAI1	Amphotericin B	-0.26911	0.037601
SULT1B1	EMD-534085	0.26867	0.037925
CCNF	Rabusertib	0.268211	0.038268
MMP10	Selumetinib	-0.26808	0.038364
TERT	Fostamatinib	0.267322	0.038937
TERT	BI-2536	0.266914	0.039248
TERT	LY-2606368	0.266644	0.039454

Table S1 (continued)

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Gene	Drug	cor	P value
<i>TERT</i>	Ixabepilone	0.266512	0.039556
<i>MMP10</i>	Rigosertib	0.266489	0.039574
<i>SNAI1</i>	Sonolisib	0.266401	0.039641
<i>TERT</i>	Voreloxin	0.26598	0.039966
<i>ELANE</i>	DIGOXIN	0.265849	0.040068
<i>CCNF</i>	IDEBENONE	0.265632	0.040237
<i>SNAI1</i>	CUDC-305	-0.26534	0.040463
<i>CCNF</i>	Clofarabine	0.265253	0.040534
<i>TERT</i>	XK-469	0.264777	0.040908
<i>CCNF</i>	METHOTREXATE	0.264452	0.041166
<i>TERT</i>	AMONAFIDE	0.264223	0.041348
<i>TERT</i>	Ispinesib	0.263815	0.041675
<i>ELANE</i>	Nitrogen mustard	0.262273	0.042928
<i>MMP10</i>	Cladribine	-0.26203	0.043132
<i>TERT</i>	Ergosterol	0.26132	0.043717
<i>TERT</i>	auranofin	0.26131	0.043726
<i>CCNF</i>	Floxuridine	0.260354	0.044531
<i>CCNF</i>	SNS-314	0.260161	0.044694
<i>CCNF</i>	Pemetrexed	0.259788	0.045012
<i>SNAI1</i>	Irofulven	0.259191	0.045525
<i>TERT</i>	Rabusertib		0.045854
<i>TERT</i>	XAV-939		0.045925
<i>MMP10</i>	Dovitinib		0.046353
<i>CCNF</i>	PKI-587		0.046796
<i>MMP10</i>	TAK-733		0.046985
<i>SULT1B1</i>	Everolimus		0.047115
<i>CCNF</i>	Triapine		0.047379
<i>TERT</i>	Curcumin		0.047656
<i>SNAI1</i>	Abiraterone		0.047762
<i>MMP10</i>	Ibrutinib		0.048487
<i>SULT1B1</i>	Mitomycin		0.04884
<i>SNAI1</i>	Temsirolimus		0.048929
<i>SULT1B1</i>	By-Product of CUDC-305		0.048986
<i>MMP10</i>	BMS-536924		0.049093
<i>SULT1B1</i>	Idelalisib		0.049338
<i>SNAI1</i>	Chelerythrine		0.049772