

# BD Rhapsody™ Onco-BC Targeted Panel gene list

Gene	Transcript	Poly(A) position
ABCB1	NM_000927.4	chr7:87503997
ABCG2	NM_004827.2	chr4:88092171
ACTA2	NM_001613.2	chr10:88935132
ACTR3B	NM_020445.5	chr7:152855153
ADAM23	NM_003812.3	chr2:206618464
AIMP1	NM_004757.3	chr4:106347766
AKR1C1	NM_001353.5	chr10:4977949
AKT1	NM_005163.2	chr14:104769353
ALCAM	NM_001627.3	chr3:105576714
ALDH1A1	NM_000689.4	chr9:72900971
ANGPT1	NM_001146.4	chr8:107249482
ANLN	NM_018685.4	chr7:36453667
APC	NM_000038.5	chr5:112844975
AR	NM_000044.3	chrX:67730391
AREG	NM_001657.3	chr4:74455009
ARG1	NM_000045.3	chr6:131584325
ARG2	NM_001172.3	chr14:67651110
ATM	NM_000051.3	chr11:108368844
AXIN2	NM_004655.3	chr17:65528635
AZU1	NM_001700.4	chr19:832018
BAD	NM_004322.3	chr11:64269834
BAX	NM_001291428.1	chr19:48961793
BBC3	NM_014417.4	chr19:47220825
BCL2	NM_000633.2	chr18:63123346
BCL2L11	NM_006538.4	chr2:111168443
BCL6	NM_001706.4	chr3:187721385
BIRC5	NM_001168.2	chr17:78224695
BLVRA	NM_000712.3	chr7:43807337
BMP1	NM_006129.4	chr8:22212326
BPI	NM_001725.2	chr20:38337503

Gene	Transcript	Poly(A) position
BRCA1	NM_007294.3	chr17:43044297
C10orf54	NM_022153.1	chr10:71750316
C1QA	NM_015991.2	chr1:22639605
C1QB	NM_000491.3	chr1:22661529
C1QC	NM_172369.3	chr1:22648105
C1S	NM_001734.3	chr12:7070757
C4A	NM_007293.2	chr6:32002680
CA12	NM_001218.4	chr15:63323531
CASP3	NM_004346.3	chr4:184627697
CASP5	NM_004347.3	chr11:104994245
CAV1	NM_001753.4	chr7:116561175
CCL3	NM_002983.2	chr17:36088259
CCL4	NM_002984.3	chr17:36105612
CCL5	NM_002985.2	chr17:35871497
CCNA1	NM_003914.3	chr13:36442868
CCNB1	NM_031966.3	chr5:69177694
CCND1	NM_053056.2	chr11:69654472
CCND2	NM_001759.3	chr12:4305162
CCNE1	NM_001238.3	chr19:29824309
CCNE2	NM_057749.2	chr8:94880234
CCR2	NM_001123041.2	chr3:46360923
CCR4	NM_005508.4	chr3:32954911
CCR5	NM_000579.3	chr3:46376199
CCR6	NM_004367.5	chr6:167137657
CCR7	NM_001838.3	chr17:40553895
CD14	NM_000591.3	chr5:140631733
CD163	NM_004244.5	chr12:7470975
CD19	NM_001770.5	chr16:28939339
CD24	NM_013230.3	chr6:106969831
CD244	NM_016382.3	chr1:160830210



Gene	Transcript	Poly(A) position
CD247	NM_000734.3	chr1:167430642
CD27	NM_001242.4	chr12:6451710
CD274	NM_014143.3	chr9:5470490
CD28	ENST00000374481.7	chr2:203737830
CD38	NM_001775.3	chr4:15853226
CD3D	NM_000732.4	chr11:118339077
CD3E	NM_000733.3	chr11:118316170
CD3G	NM_000073.2	chr11:118353288
CD4	NM_000616.4	chr12:6820809
CD40	NM_001250.5	chr20:46129289
CD40LG	NM_000074.2	chrX:136659735
CD44	NM_000610.3	chr11:35232331
CD46	NM_002389.4	chr1:207795222
CD69	NM_001781.2	chr12:9752552
CD74	NM_004355.3	chr5:150401643
CD79A	NM_001783.3	chr19:41881370
CD79B	NM_000626.2	chr17:63928742
CD80	NM_005191.3	chr3:119524274
CD86	NM_006889.4	chr3:122119549
CD8A	NM_001768.6	chr2:86784612
CDC20	NM_001255.2	chr1:43363186
CDC6	ENST00000209728.8	chr17:40302818
CDC7	NM_003503.3	chr1:91525754
CDCA7	NM_031942.4	chr2:173368902
CDCP1	NM_022842.4	chr3:45082525
CDH1	NM_004360.4	chr16:68835326
CDH13	NM_001257.4	chr16:83796591
CDH3	NM_001793.5	chr16:68699035
CDH6	NM_004932.3	chr5:31324585
CDK2	NM_001798.4	chr12:55972684
CDKN1A	NM_000389.4	chr6:36687326
CDKN1C	NM_000076.2	chr11:2883221
CDKN2A	NM_000077.4	chr9:21968006
CDKN2B	NM_004936.3	chr9:22004650
CENPA	NM_001809.3	chr2:26794533
CENPF	NM_016343.3	chr1:214664088
CEP55	NM_018131.4	chr10:93528879
CIITA	NM_000246.3	chr16:10924860
CLDN3	NM_001306.3	chr7:73768999
CLDN4	NM_001305.4	chr7:73832683
CLDN7	NM_001307.5	chr17:7260142
COL1A1	NM_000088.3	chr17:50185386
COL1A2	NM_000089.3	chr7:94430702
COL2A1	NM_001844.4	chr12:47973199
COL3A1	NM_000090.3	chr2:189012053
COL9A1	NM_001851.4	chr6:70216040
CSF1	NM_000757.5	chr1:109930991
CST6	NM_001323.3	chr11:66013503
CTLA4	NM_005214.4	chr2:203873963
CTNNB1	NM_001904.3	chr3:41240448
CTSD	NM_001909.4	chr11:1752815
CTSG	NM_001911.2	chr14:24573557
CTSW	NM_001335.3	chr11:65883737
CX3CR1	NM_001337.3	chr3:39263497
CXCL12	NM_000609.6	chr10:44370305
CXCL14	NM_004887.4	chr5:135570687
CXCL16	NM_022059.3	chr17:4733541
CXCL8	NM_000584.3	chr4:73743713
CXCR1	NM_000634.2	chr2:218163327

Gene	Transcript	Poly(A) position
CXCR3	NM_001504.1	chrX:71615921
CXCR4	NM_003467.2	chr2:136114351
CXXC5	NM_016463.8	chr5:139683879
DCK	NM_000788.2	chr4:71030914
DCN	NM_001920.4	chr12:91145921
DEFA3	NM_005217.3	chr8:7015871
DEFA4	NM_001925.2	chr8:6935826
DIABLO	NM_019887.5	chr12:122207838
DKK1	NM_012242.2	chr10:52317657
DTL	NM_016448.3	chr1:212104843
EBF4	NM_001110514.1	chr20:2760089
EDNRA	NM_001957.3	chr4:147544954
EGF	NM_001963.5	chr4:110012261
EGFR	NM_005228.3	chr7:55207332
EGLN1	NM_022051.2	chr1:231366319
ELANE	NM_001972.3	chr19:856242
ENG	NM_000118.3	chr9:127815018
EOMES	NM_005442.3	chr3:27715956
EPCAM	NM_002354.2	chr2:47387028
EPHA6	NM_001278301.1	chr3:97010129
ERBB2	NM_004448.3	chr17:39728486
ERBB3	NM_001982.3	chr12:56103499
ERBB4	NM_005235.2	chr2:211375728
ESM1	NM_007036.4	chr5:54977870
ESR1	NM_000125.3	chr6:152103270
EVL	NM_016337.2	chr14:100143941
FAP	NM_004460.3	chr2:162170686
FBLN1	NM_001996.3	chr22:45563353
FCGR3A	NM_000569.6	chr1:161542009
FCRLA	NM_032738.3	chr1:161714350
FGF18	NM_003862.2	chr5:171457617
FGFR4	NM_002011.4	chr5:177098141
FLT1	NM_002019.4	chr13:28300575
FN1	NM_002026.3	chr2:215360865
FOXA1	NM_004496.3	chr14:37589991
FOXC1	NM_001453.2	chr6:1613891
FOXO1	NM_002015.3	chr13:40555770
FOXP3	NM_014009.3	chrX:49250440
FYB	NM_001465.4	chr5:39105321
GAPDH	NM_002046.5	chr12:6538369
GATA3	ENST00000346208.3	chr10:8074803
GLI1	NM_005269.2	chr12:57472260
GNLY	NM_006433.4	chr2:85698743
GNPMB	NM_002510.2	chr7:23275104
GPR160	NM_014373.2	chr3:170085307
GRB7	NM_005310.3	chr17:39747282
GSTP1	NM_000852.3	chr11:67586651
GZMA	NM_006144.3	chr5:55110248
GZMB	NM_004131.4	chr14:24630959
GZMH	NM_033423.4	chr14:24606489
GZMK	NM_002104.2	chr5:55034131
GZMM	NM_005317.3	chr19:549911
HAVCR2	NM_032782.4	chr5:157085832
HIC1	NM_006497.3	chr17:2059685
HIF1A	NM_001530.3	chr14:61748257
HLA-A	NM_002116.7	chr6:29945764
HLA-DQA1	NM_002122.3	chr6:32643128
HLA-DQB1	NM_002123.4	chr6:32659471
HLA-DRA	NM_019111.4	chr6:32444940

Gene	Transcript	Poly(A) position
HLA-DRB1	NM_002124.3	chr6:32578780
HPRT1	NM_000194.2	chrX:134500396
HRAS	NM_005343.3	chr11:532244
HRASLS	NM_020386.4	chr3:193270854
ICOS	NM_012092.3	chr2:203961572
ICOSLG	NM_015259.5	chr21:44227558
ID1	NM_002165.3	chr20:31606504
IFNG	NM_000619.2	chr12:68154770
IFNGR1	NM_000416.2	chr6:137197486
IGF1	NM_000618.4	chr12:102395901
IGF1R	NM_000875.4	chr15:98964325
IGFBP3	NM_000598.4	chr7:45912425
IGFBP5	NM_000599.3	chr2:216672388
IGFBP7	NM_001553.2	chr4:57031265
IGHA1_secreted	ENST00000633714.1	KI270846.1:174887
IGHD_membrane	ENST00000390556.6	chr14:105836767
IGHE_secreted	ENST00000390541.2	chr14:105599944
IGHG1_membrane	ENST00000390548.6	chr14:105736343
IGHG1_secreted	ENST00000390542.6	chr14:105741340
IGHG3_secreted	ENST00000390551.6	chr14:105769104
IGHM_membrane	ENST00000637539.1	chr14:105851709
IGHM_secreted	ENST00000390559.6	chr14:105854224
IGKC	ENST00000390237.2	chr2:88857168
IGLC3	ENST00000390325.2	chr22:22906803
IKZF2	NM_016260.2	chr2:212999804
IL12A	NM_000882.3	chr3:159996019
IL13	NM_002188.2	chr5:132661111
IL17F	NM_052872.3	chr6:52236686
IL18	NM_001562.3	chr11:112143262
IL1B	NM_000576.2	chr2:112829760
IL1RN	NM_173843.2	chr2:113134014
IL2	NM_000586.3	chr4:122451470
IL21	NM_021803.3	chr4:122612628
IL22	NM_020525.4	chr12:68248245
IL2RA	NM_000417.2	chr10:6012554
IL4	NM_000589.3	chr5:132682678
IL5	NM_000879.2	chr5:132541445
IL6	NM_000600.4	chr7:22731997
IL7R	NM_002185.3	chr5:35879599
IRF4	NM_002460.3	chr6:411439
ITGA6	NM_000210.3	chr2:172506455
ITGAE	NM_002208.4	chr17:3714684
ITGAX	NM_000887.4	chr16:31382866
ITGB1	NM_002211.3	chr10:32900394
ITGB2	NM_000211.4	chr21:44886059
JCHAIN	NM_144646.3	chr4:70655789
JUN	NM_002228.3	chr1:58780888
KDR	ENST00000263923.4	chr4:55078588
KIF2C	NM_006845.3	chr1:44767746
KIT	NM_000222.2	chr4:54740712
KRAS	NM_004985.4	chr12:25205248
KRT14	NM_000526.4	chr17:41582279
KRT17	NM_000422.2	chr17:41619444
KRT18	NM_000224.2	chr12:52952899
KRT19	NM_002276.4	chr17:41523619
KRT5	NM_000424.3	chr12:52514579
KRT72	NM_080747.2	chr12:52585590
KRT8	NM_002273.3	chr12:52897193
KRT81	NM_002281.3	chr12:52285916

Gene	Transcript	Poly(A) position
LAG3	NM_002286.5	chr12:6778452
LAMP1	NM_005561.3	chr13:113323243
LCK	NM_005356.4	chr1:32286163
LGALS1	NM_002305.3	chr22:37679799
LGALS3	NM_002306.3	chr14:55145306
LGALS9	NM_002308.3	chr17:27649553
LIN9	NM_173083.3	chr1:226231878
LPCAT1	NM_024830.3	chr5:1461427
LTA	NM_000595.3	chr6:31574320
LTB	NM_002341.1	chr6:31580639
LYZ	NM_000239.2	chr12:69353957
MALAT1	ENST00000534336.1	chr11:65506465
MAP2K4	NM_003010.3	chr17:12143729
MAPK1	NM_002745.4	chr22:21762775
MAPK3	NM_002746.2	chr16:30114107
MAPK8	NM_001323329.1	chr10:48435876
MAPT	NM_005910.5	chr17:46024425
MCM6	NM_005915.5	chr2:135840446
MDM2	NM_001145339.2	chr12:68844192
MELK	NM_014791.3	chr9:36677681
MGMT	ENST00000306010.7	chr10:129767101
MIA	NM_006533.3	chr19:40777486
MKI67	NM_002417.4	chr10:128098610
MLH1	NM_000249.3	chr3:37050674
MLPH	NM_024101.6	chr2:237553894
MME	NM_000902.3	chr3:155183729
MMP11	NM_005940.4	chr22:23784314
MMP2	NM_004530.5	chr16:55505957
MMP9	NM_004994.2	chr20:46016552
MPO	NM_000250.1	chr17:58269857
MTAP	NM_002451.3	chr9:21865967
MTDH	NM_178812.3	chr8:97726312
MUC1	NM_002456.5	chr1:155185834
MYB	NM_005375.3	chr6:135219170
MYBL2	NM_002466.3	chr20:43716483
MYC	NM_002467.4	chr8:127741273
NAT1	NM_000662.7	chr8:18223687
NCAM1	NM_000615.6	chr11:113278422
NDC80	NM_006101.2	chr18:2616633
NEAT1	NR_028272.1	chr11:65426524
NKG7	NM_005601.3	chr19:51371623
NME1	NM_000269.2	chr17:51162031
NOTCH1	NM_017617.4	chr9:136494517
NR3C1	NM_000176.2	chr5:143278189
NRG1	NM_004495.3	chr8:32728623
NUF2	NM_031423.3	chr1:163355757
NUSAP1	NM_016359.4	chr15:41380792
PDCD1	NM_005018.2	chr2:241849887
PDGFA	NM_002607.5	chr7:497320
PDGFB	NM_002608.3	chr22:39223727
PDGFRA	NM_006206.4	chr4:54298043
PDGFRB	NM_002609.3	chr5:150113843
PGR	NM_000926.4	chr11:101029626
PHGDH	NM_006623.3	chr1:119744212
PITRM1	NM_014889.3	chr10:3137731
PLAU	NM_002658.4	chr10:73917492
POU5F1	NM_002701.5	chr6:31164344
PPP2R2A	NM_002717.3	chr8:26370857
PRC1	NM_003981.3	chr15:90966046

Gene	Transcript	Poly(A) position
PRDM2	NM_012231.4	chr1:13825073
PRF1	NM_005041.4	chr10:70597350
PROM1	NM_006017.2	chr4:15968229
PTEN	NM_000314.6	chr10:87971815
PTGDS	NM_000954.5	chr9:136981740
PTGS2	NM_000963.3	chr1:186671839
PTPRC	NM_002838.4	chr1:198756421
PTTG1	NM_004219.3	chr5:160428736
PVR	NM_006505.4	chr19:44663342
PYCARD	NM_013258.4	chr16:31201489
QSOX2	NM_181701.3	chr9:136206340
RAB7A	NM_004637.5	chr3:128814795
RARA	NM_000964.3	chr17:40356793
RARB	NM_000965.4	chr3:25597934
RASSF1	NM_007182.4	chr3:50329789
RB1	NM_000321.2	chr13:48481885
RECQL5	NM_004259.6	chr17:75626872
RFC4	NM_002916.3	chr3:186789902
RHOB	NM_004040.3	chr2:20449346
RNASE2	NM_002934.2	chr14:20956435
RNASE3	NM_002935.2	chr14:20892348
RNASE4	NM_002937.4	chr14:20700378
RNASE6	NM_005615.4	chr14:20782459
ROS1	NM_002944.2	chr6:117288367
RRM2	NM_001034.3	chr2:10131419
RUNDC1	NM_173079.3	chr17:42993456
RUNX3	NM_004350.2	chr1:24899758
S100A4	NM_002961.2	chr1:153543621
S100A8	NM_002964.4	chr1:153390034
S100A9	NM_002965.3	chr1:153361020
S1PR1	NM_001400.4	chr1:101241369
SCUBE2	NM_020974.2	chr11:9020885
SELE	NM_000450.2	chr1:169722640
SELL	NM_000655.4	chr1:169690670
SELP	NM_003005.3	chr1:169588853
SERPINE1	NM_000602.4	chr7:101138302
SFN	NM_006142.3	chr1:26864455
SFRP1	NM_003012.4	chr8:41261965
SFRP4	NM_003014.3	chr7:37907013
SLC2A3	NM_006931.2	chr12:7919232
SLC39A6	NM_012319.3	chr18:36108533
SLIT2	NM_004787.3	chr4:20620308
SNAI2	NM_003068.4	chr8:48917677
SOX2	NM_003106.3	chr3:181714432
SPARCL1	NM_004684.5	chr4:87473467
SPDEF	NM_012391.2	chr6:34537804
SPHK1	NM_021972.3	chr17:76387853

Gene	Transcript	Poly(A) position
SRC	NM_005417.4	chr20:37405413
STAT1	NM_007315.3	chr2:190969036
STAT4	NM_003151.3	chr2:191029580
STAT5A	NM_003152.3	chr17:42311938
STAT6	NM_003153.4	chr12:57095986
STK32B	NM_018401.2	chr4:5500988
TARP_refseq	NM_001003799.1	chr7:38259643
TCF4	NM_003199.2	chr18:55223457
TCL1A	NM_021966.2	chr14:95710059
TCTN1	NM_024549.5	chr12:110649125
TFF3	NM_003226.3	chr21:42312075
TGFB1	NM_000660.5	chr19:41330916
TGFB3	NM_003239.3	chr14:75958157
THBS1	NM_003246.3	chr15:39597464
THY1	NM_006288.4	chr11:119418178
TIGIT	ENST00000481065.5	chr3:114308282
TLR1	NM_003263.3	chr4:38796290
TMEM45B	NM_138788.3	chr11:129859508
TNF	NM_000594.3	chr6:31578328
TNFRSF14	NM_003820.3	chr1:2563742
TNFRSF18	NM_004195.2	chr1:1203510
TNFRSF1A	NM_001065.3	chr12:6328961
TNFRSF4	NM_003327.3	chr1:1211348
TNFRSF9	ENST00000377507.7	chr1:7919847
TNFSF13	NM_003808.3	chr17:7561600
TNFSF13B	NM_006573.4	chr13:108308346
TNFSF4	NM_003326.4	chr1:173183736
TNFSF9	NM_003811.3	chr19:6535923
TP73	NM_005427.3	chr1:3736199
TRAC	ENST00000611116.1	chr14:22552152
TRBC2	ENST00000466254.1	chr7:142802743
TRDC	ENST00000390477.2	chr14:22465788
TSLP	ENST00000420978.6	chr5:111076793
TSPYL5	NM_033512.2	chr8:97273489
TWIST1	NM_000474.3	chr7:19115687
TYMS	NM_001071.2	chr18:673197
UBE2C	NM_007019.3	chr20:45816953
UBE2T	NM_014176.3	chr1:202331740
VCAM1	NM_001078.3	chr1:100739036
VEGFA	NM_003376.5	chr6:43786255
VIM	NM_003380.3	chr10:17237334
VWF	NM_000552.4	chr12:5948882
WISP1	NM_003882.3	chr8:133231594
XBP1	NM_005080.3	chr22:28794560
ZAP70	NM_001079.3	chr2:97739859
ZNF703	NM_025069.2	chr8:37700017

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