

FDA-approved Targeted Therapies & Gene Indicators

Abiraterone	AR
Ado-Trastuzumab Emtansine	ERBB2 (HER2)
Afatinib	EGFR, ERBB2 (HER2)
Alectinib	ALK
Anastrozole	ESR1
Axitinib	FLT1, FLT4, KDR, KIT, PDGFRA, PDGFRB
Bicalutamide	AR
Bosutinib	ABL1, SRC
Cabozantinib	FLT1, FLT3, FLT4, KDR, KIT, MET, RET
Ceritinib	ALK
Cetuximab	EGFR
Cobimetinib	MAP2K1
Crizotinib	ALK, MET, ROS1
Dabrafenib	BRAF
Dasatinib	ABL1, ABL2, DDR1, DDR2, SRC, TNK2
Enzalutamide	AR
Erbix	EGFR
Erlotinib	EGFR
Everolimus	FLCN, MTOR, NF1, NF2, PIK3CA, PTEN, STK11, TSC1, TSC2
Exemestane	ESR1
Fulvestrant	ESR1
Gefitinib	EGFR
Ibrutinib	BTK
Idelalisib	PIK3CD
Imatinib	ABL1, DDR1, DDR2, KIT, PDGFRA, PDGFRB
Lapatinib	EGFR, ERBB2 (HER2)

Lenvatinib	FLT1, KDR
Letrozole	ESR1
Necitumumab	EGFR
Nilotinib	ABL1, ABL2, DDR1, DDR2, KIT, PDGFRA, PDGFRB
Nintedanib	FGFR1, FGFR2, FGFR3, FLT1, FLT4, KDR, PDGFRA, PDGFRB
Olaparib	ATM, ATR, BRCA1, BRCA2, PALB2, PARP1
Osimertinib	EGFR
Palbociclib	CDK4, CDK6, CCND1, CCND2, CCND3, CDKN1A, CDKN1B, CDKN2A, CDKN2B
Panitumumab	EGFR
Pazopanib	FLT1, FLT4, KDR, KIT, PDGFRA, PDGFRB
Pertuzumab	ERBB2 (HER2)
Ponatinib	ABL1, FGFR1, FGFR2, FGFR3, FGFR4, FLT1, FLT3, FLT4, KDR, KIT, PDGFRA, PDGFRB, RET, SRC
Ramucirumab	KDR
Regorafenib	ARAF, BRAF, FLT1, FLT4, KDR, KIT, PDGFRB, RAF1, RET
Ruxolitinib	JAK1, JAK2
Sonidegib	PTCH1, SMO
Sorafenib	ARAF, BRAF, FLT1, FLT4, KDR, KIT, PDGFRA, PDGFRB, RAF1, RET
Sunitinib	FLT1, FLT3, FLT4, KDR, KIT, PDGFRA, PDGFRB, RET
Temsirolimus	FLCN, MTOR, NF1, NF2, PIK3CA, PTEN, STK11, TSC1, TSC2
Toremifene	ESR1
Trametinib	GNA11, GNAQ, HRAS, KRAS, MAP2K1, NRAS
Trastuzumab	ERBB2 (HER2)
Vandetanib	EGFR, FLT1, FLT4, KDR, RET
Vemurafenib	BRAF
Vismodegib	PTCH1, SMO

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