

OncoNext Liquid™ Breast

Investigated genes

AKT1, EGFR, ERBB2, ERBB3, ESR1, FBXW7, KRAS, PIK3CA, SF3B1, TP53

Hotspot mutations detected by OncoNext Liquid™ Breast

GENE	MUTATION	COSMIC ID
AKT1	p.E17K REF=C	COSMIC_ID=COSM33765
EGFR	p.H835L REF=A	COSMIC_ID=COSM6227
EGFR	p.P848L REF=C	COSM_ID=COSM22943
EGFR	p.L858R REF=T	COSMIC_ID=COSM6224
EGFR	p.L861Q REF=T	COSMIC_ID=COSM6213
ERBB2	p.L755M REF=T	COSMIC_ID=COSM1205571
ERBB2	p.L755S REF=T	COSMIC_ID=COSM14060
ERBB3	p.R103G REF=C	COSMIC_ID=NA
ERBB3	p.V104M REF=G	COSMIC_ID=COSM1152549
ERBB3	p.V104M REF=G	COSMIC_ID=COSM172423
ERBB3	p.V104M REF=G	COSMIC_ID=COSM20710
ERBB3	p.V104L REF=G	COSMIC_ID=COSM1299642
ERBB3	p.V104L REF=G	COSMIC_ID=COSM191840
ERBB3	p.V104L REF=G	COSMIC_ID=COSM1299641
ERBB3	p.G284R REF=G	COSMIC_ID=COSM941488
ERBB3	p.G284R REF=G	COSMIC_ID=COSM48360
ERBB3	p.G284R REF=G	COSMIC_ID=COSM5413554
ERBB3	p.G284R REF=G	COSMIC_ID=COSM5413555
ERBB3	p.D297Y REF=G	COSMIC_ID=COSM160822
ERBB3	p.D297Y REF=G	COSMIC_ID=COSM1299647
ERBB3	p.T355I REF=C	COSMIC_ID=COSM1476732
ERBB3	p.T355I REF=C	COSMIC_ID=COSM431477
ERBB3	p.E928G REF=A	COSMIC_ID=COSM1363010
ESR1	p.E380Q REF=G	COSMIC_ID=COSM3829320
ESR1	p.V392I REF=G	COSMIC_ID=COSM1545070
ESR1	p.S463P REF=T	COSMIC_ID=COSM4771561
ESR1	p.Y537N REF=T	COSMIC_ID=COSM1074635
ESR1	p.Y537C REF=A	COSMIC_ID=COSM1074637
ESR1	p.Y537S REF=A	COSMIC_ID=COSM1074639
ESR1	p.D538G REF=A	COSMIC_ID=COSM94250
FBXW7	p.D600Y REF=C	COSMIC_ID=COSM167304
FBXW7	p.S582L REF=G	COSMIC_ID=COSM22979
KRAS	p.G13D REF=C	COSMIC_ID=COSM532
KRAS	p.G13C REF=C	COSMIC_ID=COSM527
KRAS	p.G12A REF=C	COSMIC_ID=COSM522
KRAS	p.G12D REF=C	COSMIC_ID=COSM521
KRAS	p.G12F REF=CC	COSMIC_ID=COSM512
KRAS	p.G12V REF=C	COSMIC_ID=COSM520

KRAS	p.G12R REF=C	COSMIC_ID=COSM518
KRAS	p.G12C REF=C	COSMIC_ID=COSM516
KRAS	p.G12S REF=C	COSMIC_ID=COSM517
PIK3CA	p.N345K REF=T	COSMIC_ID=COSM754
PIK3CA	p.C420R REF=T	COSMIC_ID=COSM757
PIK3CA	p.E453K REF=G	COSMIC_ID=COSM12584
PIK3CA	p.E542K REF=G	COSMIC_ID=COSM760
PIK3CA	p.E545Q REF=G	COSMIC_ID=COSM27133
PIK3CA	p.E545K REF=G	COSMIC_ID=COSM763
PIK3CA	p.E545A REF=A	COSMIC_ID=COSM12458
PIK3CA	p.E545G REF=A	COSMIC_ID=COSM764
PIK3CA	p.Q546K REF=C	COSMIC_ID=COSM766
PIK3CA	p.Q546R REF=A	COSMIC_ID=COSM12459
PIK3CA	p.Q546P REF=A	COSMIC_ID=COSM767
PIK3CA	p.E726K REF=G	COSMIC_ID=COSM87306
PIK3CA	p.M1043V REF=A	COSMIC_ID=COSM12591
PIK3CA	p.M1043I REF=G	COSMIC_ID=COSM773
PIK3CA	p.H1047Y REF=C	COSMIC_ID=COSM774
PIK3CA	p.H1047R REF=A	COSMIC_ID=COSM775
PIK3CA	p.H1047L REF=A	COSMIC_ID=COSM776
PIK3CA	p.G1049R REF=G	COSMIC_ID=COSM12597
SF3B1	p.K700E REF=T	COSMIC_ID=COSM84677
TP53	p.E286G REF=T	COSMIC_ID=COSM43565
TP53	p.E286K REF=C	COSMIC_ID=COSM10726
TP53	p.E285K REF=C	COSMIC_ID=COSM10722
TP53	p.R283P REF=C	COSMIC_ID=COSM10743
TP53	p.R282G REF=G	COSMIC_ID=COSM10992
TP53	p.R282W REF=G	COSMIC_ID=COSM10704
TP53	p.R280I REF=C	COSMIC_ID=COSM11287
TP53	p.R280K REF=C	COSMIC_ID=COSM10728
TP53	p.R280T REF=C	COSMIC_ID=COSM10724
TP53	p.G279E REF=C	COSMIC_ID=COSM43714
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TP53	p.P278L REF=G	COSMIC_ID=COSM10863
TP53	p.P278A REF=G	COSMIC_ID=COSM10814
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TP53	p.P278T REF=G	COSMIC_ID=COSM43697
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TP53	p.C275Y REF=C	COSMIC_ID=COSM10893
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TP53	p.V274F REF=C	COSMIC_ID=COSM10769
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TP53	p.E258K REF=C	COSMIC_ID=COSM10988
TP53	p.P250L REF=G	COSMIC_ID=COSM10771
TP53	p.R249S REF=C	COSMIC_ID=COSM10817
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TP53	p.R248W REF=G	COSMIC_ID=COSM10656
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TP53	p.G245C REF=C	COSMIC_ID=COSM11081
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TP53	p.C242Y REF=C	COSMIC_ID=COSM10646
TP53	p.S241F REF=G	COSMIC_ID=COSM10812
TP53	p.S240G REF=T	COSMIC_ID=COSM43973
TP53	p.C238F REF=C	COSMIC_ID=COSM43778
TP53	p.C238Y REF=C	COSMIC_ID=COSM11059
TP53	p.M237I REF=C	COSMIC_ID=COSM10834
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TP53	p.Y220C REF=T	COSMIC_ID=COSM10758
TP53	p.Y220H REF=A	COSMIC_ID=COSM44637
TP53	p.V216M REF=C	COSMIC_ID=COSM10667
TP53	p.H214R REF=T	COSMIC_ID=COSM43687
TP53	p.R213Q REF=C	COSMIC_ID=COSM10735
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TP53	p.L194R REF=A	COSMIC_ID=COSM44571
TP53	p.H193R REF=T	COSMIC_ID=COSM10742
TP53	p.H193Y REF=G	COSMIC_ID=COSM10672
TP53	p.P191del REF=AGG	COSMIC_ID=COSM44234
TP53	p.P190L REF=G	COSMIC_ID=COSM43657
TP53	p.P177_C182del REF=GCAGCGCTCATGGTGGGG	COSMIC_ID=COSM43570
TP53	p.H179R REF=T	COSMIC_ID=COSM10889
TP53	p.H179L REF=T	COSMIC_ID=COSM43635
TP53	p.H179Y REF=G	COSMIC_ID=COSM10768
TP53	p.C176F REF=C	COSMIC_ID=COSM10645

TP53	p.C176Y REF=C	COSMIC_ID=COSM10687
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TP53	p.R175C REF=G	COSMIC_ID=COSM43680
TP53	p.V173L REF=C	COSMIC_ID=COSM43559
TP53	p.V173M REF=C	COSMIC_ID=COSM11084
TP53	p.V172F REF=C	COSMIC_ID=COSM44240
TP53	p.R158H REF=C	COSMIC_ID=COSM10690
TP53	p.R158L REF=C	COSMIC_ID=COSM10714
TP53	p.V157F REF=C	COSMIC_ID=COSM10670
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TP53	p.G154V REF=C	COSMIC_ID=COSM6815
TP53	p.P152L REF=G	COSMIC_ID=COSM10790
TP53	p.P151H REF=G	COSMIC_ID=COSM11476
TP53	p.P151S REF=G	COSMIC_ID=COSM10905
TP53	p.P151T REF=G	COSMIC_ID=COSM43911
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TP53	p.C141Y REF=C	COSMIC_ID=COSM43708
TP53	p.C141R REF=A	COSMIC_ID=COSM43901
TP53	p.A138V REF=G	COSMIC_ID=COSM43818
TP53	p.C135W REF=G	COSMIC_ID=COSM44219
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TP53	p.C135Y REF=C	COSMIC_ID=COSM10801
TP53	p.K132R REF=T	COSMIC_ID=COSM11582
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