

## TUMOR ASSOCIATED MUTATIONS IN EGFR

Domain	Mutation	Tumor Type
	p.V30R297>G	Lung SQCC
	p.D46N	Glioma
Receptor L	p.L62R	Glioblastoma
Receptor L	p.G63R	Glioma
Receptor L	p.R108K	Glioma
Receptor L	p.P136T	Lung adenocarcinoma
Furin-like CRD	p.C219G	Glioblastoma
Furin-like CRD	p.R222C	Glioblastoma
Furin-like CRD	p.R252C	Glioblastoma
Furin-like CRD	p.T263P	Glioma
Furin-like CRD	p.A289D	Glioma
Furin-like CRD	p.A289T	Glioma
Furin-like CRD	p.A289V	Glioma
Furin-like CRD	p.C311S	Glioblastoma
Furin-like CRD	p.R324L	Glioma
Receptor L	p.R451F	Lung adenocarcinoma
Pfam B2969	p.P596L	Glioma
Pfam B2969	p.A597P	Glioblastoma
Pfam B2969	p.A597T	Lung adenocarcinoma
Pfam B2969	p.G598V	Glioma
Pfam B2969	p.E602Q	Glioblastoma
Pfam B2969	p.C620Y	Glioblastoma

## 2 TARGETING PROTEIN KINASES FOR CANCER THERAPY

Pfam B2969	p.C624F	Glioma
	p.C636Y	Glioblastoma
	p.V651M	Lung adenocarcinoma
		Glioblastoma
	p.S653C	Glioblastoma
	p.S655S	Glioblastoma
Pfam B4210	p.R677H	Glioma
Pfam B4210	p.R680G	Glioblastoma
Pfam B4210	p.L688P	Lung NSCLC
	p.V689L	Lung adenocarcinoma
	p.P691S	Lung adenocarcinoma
	p.L692P	Lung SQCC
	p.P694L	Lung NSCLC
	p.P694S	Lung NSCLC
	p.S695G	Thyroid papillary carcinoma
	p.A702T	Malignant fibrous histiocyto-ma–pleomorphic sarcoma
	p.L703F	Lung adenocarcinoma
	p.L703V	Lung NSCLC
	p.I706T	Lung NSCLC
	p.L707L	Breast ductal carcinoma
	p.E709fs*1	Lung adenocarcinoma
	p.E709H	Lung adenocarcinoma
	p.E709V	Lung NSCLC
	p.E709 T710>D	Lung adenocarcinoma
		Lung NSCLC
	p.E709 T710>P	Lung adenocarcinoma
	p.E709G	Lung adenocarcinoma
		Lung bronchioloalveolar adenocarcinoma
		Lung NSCLC
	p.E709A	Lung adenocarcinoma
		Lung NSCLC
	p.E709K	Lung adenocarcinoma
		Lung bronchioloalveolar adenocarcinoma
		Lung NSCLC
		Prostate SQCC
Kinase	p.E711K	Lung SQCC
Kinase	p.K713F	Lung adenocarcinoma
Kinase	p.I715L	Lung SQCC

Kinase	p.I715S	Lung NSCLC
Kinase	p.L718P	Lung adenocarcinoma
Kinase	p.G719V	Lung NSCLC
Kinase	p.G719fs*29	Lung adenocarcinoma
Kinase	p.G719D	Lung NSCLC adenocarcinoma Esophagus SQCC
Kinase	p.G719C	Lung adenocarcinoma Lung bronchioloalveolar adenocarcinoma Lung mixed adenosquamous carcinoma Lung NSCLC
Kinase	p.G719S	Large intestine SQCC Colorectal adenocarcinoma Lung SQCC Lung NSCLC Lung adenocarcinoma
Kinase	p.G719A	Lung adenocarcinoma Lung bronchioloalveolar adenocarcinoma Lung NSCLC
Kinase	p.S720P	Lung NSCLC
Kinase	p.S720F	Lung NSCLC Lung adenocarcinoma
Kinase	p.G724S	Large intestine adenocarcinoma Lung adenocarcinoma
Kinase	p.T725M	Lung bronchioloalveolar adenocarcinoma
Kinase	p.V726M	Lung adenocarcinoma
Kinase	p.Y727C	Lung SQCC
Kinase	p.Y727H	Lung SQCC
Kinase	p.G729E	Skin SQCC
Kinase	p.G729R	Lung carcinoma
Kinase	p.L730F	Lung NSCLC
Kinase	p.W731*	Lung adenocarcinoma
Kinase	p.W731R	Lung adenocarcinoma
Kinase	p.P733L	Lung NSCLC
Kinase	p.P733S	Lung adenocarcinoma
Kinase	p.E734K	Lung adenocarcinoma Soft tissue fibrosarcoma
Kinase	p.G735S	Lung adenocarcinoma Lung NSCLC Prostate adenocarcinoma

#### 4 TARGETING PROTEIN KINASES FOR CANCER THERAPY

Kinase	p.K745 L747del	Lung adenocarcinoma
Kinase	p.K745	Lung NSCLC
	p. E746insVPVAIK	Lung NSCLC
Kinase	p.K745 E749del	Lung adenocarcinoma Lung NSCLC
Kinase	p.E746I	Lung adenocarcinoma
Kinase	p.E746 E749del	Lung NSCLC
Kinase	p.E746 P753>LS	Lung NSCLC
Kinase	p.E746 R748del	Lung adenocarcinoma
Kinase	p.E746 T751>L	Lung adenocarcinoma
Kinase	p.E746 T751>S	Lung adenocarcinoma
Kinase	p.E746 T751>V	Lung NSCLC
Kinase	p.E746 T751>VA	Lung adenocarcinoma
Kinase	p.E746 T751>VP	Lung adenocarcinoma
Kinase	p.E746del	Lung adenocarcinoma
Kinase	p.E746K	Lung NSCLC Pharynx SQCC
Kinase	p.E746V	Lung adenocarcinoma
Kinase	p.E746 A750>AP	Lung NSCLC Lung adenocarcinoma
Kinase	p.E746 A750>DP	Lung adenocarcinoma Lung bronchioloalveolar adenocarcinoma
Kinase	p.E746 A750>QP	Lung adenocarcinoma
Kinase	p.E746 A750>RP	Lung adenocarcinoma
Kinase	p.E746 A750>S	Lung NSCLC
Kinase	p.E746 P753>VS	Lung adenocarcinoma
Kinase	p.E746 S752>I	Lung adenocarcinoma Lung NSCLC
Kinase	p.E746 S752>T	Lung bronchioloalveolar adenocarcinoma
Kinase	p.E746 T751>Q	Lung adenocarcinoma
Kinase	p.E746 T751>IP	Lung adenocarcinoma Lung NSCLC
Kinase	p.E746 S752>D	Lung adenocarcinoma
Kinase	p.E746 T751>I	Lung adenocarcinoma Lung bronchioloalveolar adenocarcinoma

Kinase	p.E746 A750>IP	Lung adenocarcinoma Lung bronchioloalveolar adenocarcinoma Lung mixed adenosquamous carcinoma Lung NSCLC
Kinase	p.E746 S752>A	Oligodendroglioma Kidney adenocarcinoma Lung bronchioloalveolar adenocarcinoma
Kinase	p.E746 T751del	Lung adenocarcinoma
Kinase	p.E746 T751>A	Lung adenocarcinoma Lung NSCLC Tonsil SQCC
Kinase	p.E746 S752>V	Lung adenocarcinoma Lung bronchioloalveolar adenocarcinoma Lung mixed adenosquamous carcinoma Lung NSCLC
Kinase	p.E746 A750del	Clear cell renal carcinoma Lung adenocarcinoma Lung large cell carcinoma Lung NSCLC Lung SCC Lung SQCC Adenoid cystic carcinoma Upper aerodigestive tract SQCC
Kinase	p.L747P	Lung adenocarcinoma
Kinase	p.L747 K754>ST	Lung NSCLC
Kinase	p.L747 K754del	Lung NSCLC
Kinase	p.L747 N756>SKDD	Lung adenocarcinoma
Kinase	p.L747 P753del	Lung adenocarcinoma Lung NSCLC
Kinase	p.L747 T751>S	Lung adenocarcinoma Lung NSCLC Lung bronchioloalveolar adenocarcinoma
Kinase	p.L747 E749del	Lung adenocarcinoma Tonsil SQCC Lung NSCLC Lung bronchioloalveolar adenocarcinoma

## 6 TARGETING PROTEIN KINASES FOR CANCER THERAPY

Kinase	p.L747 P753>Q	Lung adenocarcinoma Lung NSCLC Lung bronchioloalveolar adenocarcinoma Lung SCC
Kinase	p.L747 T751>P	Lung adenocarcinoma Lung NSCLC Lung bronchioloalveolar adenocarcinoma
Kinase	p.L747 S752del	Lung adenocarcinoma Lung NSCLC Lung bronchioloalveolar adenocarcinoma
Kinase	p.L747 T751del	Lung adenocarcinoma Lung NSCLC Lung bronchioloalveolar adenocarcinoma Lung mixed adenosquamous carcinoma
Kinase	p.L747 A750>P	Lung adenocarcinoma Prostate adenocarcinoma Lung NSCLC Tonsil SQCC
Kinase	p.L747 P753>S	Lung adenocarcinoma Lung NSCLC Prostate adenocarcinoma Lung bronchioloalveolar adenocarcinoma
Kinase	p.R748K	Synovial sarcoma
Kinase	p.E749 E758>QP	Lung NSCLC
Kinase	p.E749 P753>Q	Lung NSCLC
Kinase	p.A750 E758del	Lung NSCLC
Kinase	p.A750 K754del	Lung NSCLC
Kinase	p.A750P	Lung adenocarcinoma
Kinase	p.A750 K757del	Lung adenocarcinoma Lung NSCLC
Kinase	p.A750 E758>P	Lung adenocarcinoma Lung NSCLC
Kinase	p.T751 E758del	Lung mixed adenosquamous carcinoma
Kinase	p.T751 I759>N	Lung adenocarcinoma
Kinase	p.T751 I759>REA	Lung mixed adenosquamous carcinoma
Kinase	p.T751 I759>S	Lung adenocarcinoma Lung NSCLC
Kinase	p.T751I	Plasma cell myeloma Lung NSCLC

Kinase	p.S752Y	Lung NSCLC
Kinase	p.S752 I759del	Lung adenocarcinoma Lung bronchioloalveolar adenocarcinoma Lung NSCLC
Kinase	p.P753F	Lung SQCC
Kinase	p.P753P	Esophagus SQCC
Kinase	p.P753 I759del	Lung adenocarcinoma
Kinase	p.P753S	Lung bronchioloalveolar adenocarcinoma Malignant melanoma
Kinase	p.K754K	Esophagus adenocarcinoma
Kinase	p.K754R	Lung adenocarcinoma
Kinase	p.A755A	Lung adenocarcinoma
Kinase	p.A755D	Lung adenocarcinoma
Kinase	p.N756S	Lung NSCLC
Kinase	p.N756 L760del	Lung adenocarcinoma
Kinase	p.K757>NK	Lung NSCLC
Kinase	p.I759N	Lung mixed adenosquamous carcinoma
Kinase	p.D761N	Lung NSCLC
Kinase	p.D761G	Prostate adenocarcinoma
Kinase	p.D761 E762insEAFQ	Lung adenocarcinoma
Kinase	p.D761Y	Lung adenocarcinoma
Kinase	p.A763 Y764insFQEA	Lung NSCLC
Kinase	p.Y764Y	Hepatocellular carcinoma
Kinase	p.Y764 V765insHH	Lung NSCLC
Kinase	p.M766 A767insAI	Lung bronchioloalveolar adenocarcinoma
Kinase	p.A767V	Stomach adenocarcinoma
Kinase	p.A767 S768insTLA	Lung adenocarcinoma
Kinase	p.S768C	Lung adenocarcinoma
Kinase	p.S768 V769insAWT	Lung NSCLC
Kinase	p.S768 V769insVAS	Lung NSCLC
Kinase	p.S768I	Lung NSCLC Astrocytoma Esophagus SQCC Lung adenocarcinoma
Kinase	p.V769M	Lung adenocarcinoma
Kinase	p.V769 D770insCV	Lung NSCLC
Kinase	p.V769 D770insDNV	Lung NSCLC
Kinase	p.V769 D770insGSV	Lung adenocarcinoma

## 8 TARGETING PROTEIN KINASES FOR CANCER THERAPY

Kinase p.D769 D770>GY	Lung adenocarcinoma
Kinase p.V769L	Lung adenocarcinoma
Kinase p.V769 D770insGVV	Lung adenocarcinoma
Kinase p.V769 D770insASV	Lung adenocarcinoma
Kinase p.D770N	Lung NSCLC
Kinase p.D770 N771>AGG	Lung adenocarcinoma
Kinase p.D770 N771insAPW	Lung adenocarcinoma
Kinase p.D770 N771insD	Lung adenocarcinoma
Kinase p.D770 N771insDG	Lung mixed adenosquamous carcinoma
Kinase p.D770 N771insMATP	Lung NSCLC
Kinase p.D770 N771insN	Lung adenocarcinoma
Kinase p.D770 N771insSVQ	Lung NSCLC
Kinase p.D770 P772>ASVDNR	Lung adenocarcinoma
Kinase p.D770fs*61	Lung adenocarcinoma
Kinase p.D770 N771insG	Lung adenocarcinoma
	Lung NSCLC
	Lung SQCC
Kinase p.D770 N771insSVD	Lung NSCLC
	Lung adenocarcinoma
	Lung bronchioloalveolar adenocarcinoma
Kinase p.N771insGL	Lung adenocarcinoma
Kinase p.N771insSVD	Lung adenocarcinoma
Kinase p.N771>GF	Lung adenocarcinoma
Kinase p.N771>GT	Lung NSCLC
Kinase p.N771>SH	Lung bronchioloalveolar adenocarcinoma
Kinase p.N771>TH	Lung NSCLC
Kinase p.N771>YG	Sinonasal SQCC
Kinase p.N771 P772>SVDNR	Lung adenocarcinoma
Kinase p.N771 P772insN	Lung NSCLC
Kinase p.P772P	Lung adenocarcinoma
Kinase p.P772 H773insDHP	Lung adenocarcinoma
Kinase p.P772 H773insYNP	Lung adenocarcinoma
Kinase p.P772 H773insX	Lung NSCLC
Kinase p.P772 H773insPR	Lung NSCLC
Kinase p.H773insTHP	Lung adenocarcinoma
Kinase p.H773>NPY	Lung NSCLC
Kinase p.H773L	Lung adenocarcinoma



Kinase	p.H773Y	Lung adenocarcinoma
Kinase	p.H773 V774>LM	Lung adenocarcinoma
Kinase	p.H773 V774insG	Lung adenocarcinoma
Kinase	p.H773 V774insGH	Lung NSCLC
Kinase	p.H773 V774insPH	Lung NSCLC
Kinase	p.H773 V774insH	Lung NSCLC
Kinase	p.H773 V774insNPH	Lung NSCLC
		Lung bronchioloalveolar adenocarcinoma
		Lung adenocarcinoma
Kinase	p.H773R	Lung adenocarcinoma
		Lung NSCLC
Kinase	p.V774insNPH	Lung adenocarcinoma
Kinase	p.V774L	Lung adenocarcinoma
Kinase	p.V774del	Lung NSCLC
Kinase	p.V774M	Lung adenocarcinoma
		Lung NSCLC
Kinase	p.V774 C775insHV	Lung adenocarcinoma
Kinase	p.C775Y	Tonsil SQCC
Kinase	p.R776G	Lung adenocarcinoma
Kinase	p.R776C	Lung adenocarcinoma
		Lung bronchioloalveolar adenocarcinoma
Kinase	p.R776H	Lung NSCLC
		Lung bronchioloalveolar adenocarcinoma
		Lung adenocarcinoma
Kinase	p.L777Q	Lung adenocarcinoma
Kinase	p.L778L	Lung NSCLC
Kinase	p.G779C	Lung NSCLC
Kinase	p.G779F	Lung adenocarcinoma
Kinase	p.G779S	Lung adenocarcinoma
Kinase	p.T783I	Lung NSCLC
Kinase	p.S784Y	Mouth SQCC
Kinase	p.S784F	Lung NSCLC
		Lung bronchioloalveolar adenocarcinoma
Kinase	p.T785I	Lung NSCLC
Kinase	p.V786M	Lung bronchioloalveolar adenocarcinoma
Kinase	p.Q787R	Lung adenocarcinoma

**10 TARGETING PROTEIN KINASES FOR CANCER THERAPY**

Kinase	p.T790M	Lung bronchioloalveolar adenocarcinoma Lung NSCLC Lung adenocarcinoma Glioma Malignant melanoma Clear cell sarcoma Lung mixed adenosquamous carcinoma Mouth SQCC
Kinase	p.L792P	Lung NSCLC
Kinase	p.F795F	Lung adenocarcinoma
Kinase	p.F795S	Mouth SQCC
Kinase	p.G796A	Lung adenocarcinoma
Kinase	p.G796S	Prostate adenocarcinoma Pharynx SQCC
Kinase	p.L798F	Lung NSCLC
Kinase	p.L799R	Lung NSCLC
Kinase	p.Y801H	Tonsil SQCC
Kinase	p.V802I	Lung SQCC
Kinase	p.R803L	Lung adenocarcinoma
Kinase	p.E804G	Prostate adenocarcinoma
Kinase	p.H805I	Lung NSCLC
Kinase	p.K806E	Lung adenocarcinoma
Kinase	p.D807N	Lung NSCLC
Kinase	p.G810S	Lung NSCLC
Kinase	p.G810D	Mouth SQCC
Kinase	p.S811F	Lung NSCLC
Kinase	p.Q812R	Lung adenocarcinoma
Kinase	p.Y813C	Tonsil SQCC
Kinase	p.L815L	Lung adenocarcinoma
Kinase	p.C818Y	Pancreas ductal carcinoma
Kinase	p.V819A	Lung NSCLC
Kinase	p.V819V	Glioma Hepatocellular carcinoma Lung adenocarcinoma
Kinase	p.N826S	Lung NSCLC
Kinase	p.E829E	Osteosarcoma
Kinase	p.R831C	Osteosarcoma
Kinase	p.R831H	Lung NSCLC

Kinase	p.R832H	Lung adenocarcinoma Lung NSCLC
Kinase	p.L833V	Lung adenocarcinoma Lung NSCLC Lung SQCC
Kinase	p.V834M	Thyroid papillary carcinoma
Kinase	p.V834L	Lung adenocarcinoma
Kinase	p.H835L	Lung adenocarcinoma Lung bronchioloalveolar adenocarcinoma
Kinase	p.L838P	Lung NSCLC
Kinase	p.T847I	Lung NSCLC
Kinase	p.P848L	Lung NSCLC Mouth SQCC
Kinase	p.H850N	Lung NSCLC
Kinase	p.H850D	Lung NSCLC
Kinase	p.V851A	Lung NSCLC
Kinase	p.V851I	Lung adenocarcinoma
Kinase	p.I853T	Lung NSCLC
Kinase	p.F856L	Lung adenocarcinoma
Kinase	p.F856S	Lung adenocarcinoma
Kinase	p.G857E	Lung adenocarcinoma
Kinase	p.G857R	Large intestine adenocarcinoma
Kinase	p.G857V	AML
Kinase	p.L858G	Lung adenocarcinoma
Kinase	p.L858K	Lung adenocarcinoma
Kinase	p.L858W	Lung adenocarcinoma
Kinase	p.L858A	Lung adenocarcinoma
Kinase	p.L858Q	Lung adenocarcinoma
Kinase	p.L858L	Larynx SQCC
Kinase	p.L858M	Lung bronchioloalveolar adenocarcinoma
Kinase	p.L858R	Thymoma Prostate adenocarcinoma Lung bronchioloalveolar adenocarcinoma Lung adenocarcinoma Lung giant cell carcinoma Lung mixed adenosquamous cell carcinoma Lung acinar adenocarcinoma Lung mucoepidermoid carcinoma Lung SCC

## 12 TARGETING PROTEIN KINASES FOR CANCER THERAPY

Kinase	p.A859fs*38	Bladder carcinoma
Kinase	p.A859 L883>V	Lung NSCLC
Kinase	p.A859T	Lung adenocarcinoma Bladder SQCC
Kinase	p.K860E	Lung SQCC
Kinase	p.K860I	Lung NSCLC
Kinase	p.L861P	Lung undifferentiated carcinoma
Kinase	p.L861V	Lung adenocarcinoma
Kinase	p.L861R	Lung adenocarcinoma
Kinase	p.L861Q	Glioma Lung NSCLC Lung bronchioloalveolar adenocarcinoma Lung adenocarcinoma
Kinase	p.L862P	Mouth SQCC
Kinase	p.G863G	Osteosarcoma
Kinase	p.G863S	Lung adenocarcinoma
Kinase	p.G863D	Lung NSCLC Thymoma Mouth SQCC
Kinase	p.A864E	Bladder carcinoma
Kinase	p.A864T	Lung NSCLC
Kinase	p.E866K	Lung NSCLC
Kinase	p.Y869C	Bladder carcinoma
Kinase	p.H870R	Lung adenocarcinoma
Kinase	p.A871G	Lung adenocarcinoma
Kinase	p.E872*	Esophagus SQCC
Kinase	p.G873E	Lung NSCLC
Kinase	p.G873G	Esophagus SQCC
Kinase	p.G874S	Lung adenocarcinoma
Kinase	p.K875R	Bladder carcinoma
Kinase	p.V897I	Lung NSCLC
Kinase	p.D916D	Oligodendroglioma
Kinase	p.F968L	Glioblastoma
Kinase	p.D1012H	Lung adenocarcinoma
Kinase	p.A1048V	Stomach adenocarcinoma

## SOURCES

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