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<110> Loxo Oncology, Inc.

<120> METHODS OF DIAGNOSING AND TREATING CANCER

<130> 42001-0002W01

<150> US 62/169,443

<151> 2015-06-01

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<170> PatentIn version 3.5

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<212> PRT

<213> Homo sapiens

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Arg Cys Thr Arg Asp Gly Ala Leu Asp Ser Leu His His Leu Pro Gly
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Ala Glu Asn Leu Thr Glu Leu Tyr Ile Glu Asn Gln Gln His Leu Gln
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His Leu Glu Leu Arg Asp Leu Arg Gly Leu Gly Glu Leu Arg Asn Leu
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Thr Ile Val Lys Ser Gly Leu Arg Phe Val Ala Pro Asp Ala Phe His
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Leu Ser Gly Asn Pro Leu His Cys Ser Cys Ala Leu Arg Trp Leu Gln
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Arg Trp Glu Glu Glu Gly Leu Gly Gly Val Pro Glu Gln Lys Leu Gln
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Cys His Gly Gln Gly Pro Leu Ala His Met Pro Asn Ala Ser Cys Gly
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Val Pro Thr Leu Lys Val Gln Val Pro Asn Ala Ser Val Asp Val Gly
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Gly Ile Asn Arg Pro Ala Val Leu Ala Pro Glu Asp Gly Leu Ala Met
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Gly Lys Gly Ser Gly Leu Gln Gly His Ile Ile Glu Asn Pro Gln Tyr
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seq

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Cys His Asn Leu Leu Pro Glu Gln Asp Lys Met Leu Val Ala Val Lys
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Ala Glu Leu Leu Thr Met Leu Gln His Gln His Ile Val Arg Phe Phe
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Gly Val Cys Thr Glu Gly Arg Pro Leu Leu Met Val Phe Glu Tyr Met
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Arg His Gly Asp Leu Asn Arg Phe Leu Arg Ser His Gly Pro Asp Ala
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Lys Leu Leu Ala Gly Gly Glu Asp Val Ala Pro Gly Pro Leu Gly Leu
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Gly Gln Leu Leu Ala Val Ala Ser Gln Val Ala Ala Gly Met Val Tyr
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725 730 735

Ile Asp Cys Ile Thr Gln Gly Arg Glu Leu Glu Arg Pro Arg Ala Cys
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Pro Pro Glu Val Tyr Ala Ile Met Arg Gly Cys Trp Gln Arg Glu Pro
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Arg	Cys	Thr	Asn	Leu	Leu	Ala	Ala	Ser	Tyr	Ile	Glu	Asn	Gln	Gln	His
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Leu Val Leu Ser Gly Asn Pro Leu His Cys Ser Cys Ala Leu Arg Trp
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Leu Gln Arg Trp Glu Glu Glu Gly Leu Gly Gly Val Pro Glu Gln Lys
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Leu Gln Cys His Gly Gln Gly Pro Leu Ala His Met Pro Asn Ala Ser
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Cys Gly Val Pro Thr Leu Lys Val Gln Val Pro Asn Ala Ser Val Asp
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Val Gly Asp Asp Val Leu Leu Arg Cys Gln Val Glu Gly Arg Gly Leu
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Glu Gln Ala Gly Trp Ile Leu Thr Glu Leu Glu Gln Ser Ala Thr Val
195 200 205

Met Lys Ser Gly Gly Leu Pro Ser Leu Gly Leu Thr Leu Ala Asn Val
210 215 220

Thr Ser Asp Leu Asn Arg Lys Asn Val Thr Cys Trp Ala Glu Asn Asp
225 230 235 240

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Ser Val Gln Leu His Thr Ala Val Glu Met His His Trp Cys Ile Pro
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Gly Ser Val Leu Asn Glu Thr Ser Phe Ile Phe Thr Glu Phe Leu Glu
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Phe Glu Phe Asn Pro Glu Asp Pro Ile Pro Asp Thr Asn Ser Thr Ser
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Gly Asp Pro Val Glu Lys Lys Asp Glu Thr Pro Phe Gly Val Ser Val
370 375 380

Ala Val Gly Leu Ala Val Phe Ala Cys Leu Phe Leu Ser Thr Leu Leu
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Leu Val Leu Asn Lys Cys Gly Arg Arg Asn Lys Phe Gly Ile Asn Arg
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Pro Ala Val Leu Ala Pro Glu Asp Gly Leu Ala Met Ser Leu His Phe
420 425 430

seq

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Gly Leu Gln Gly His Ile Ile Glu Asn Pro Gln Tyr Phe Ser Asp Ala
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Cys Val His His Ile Lys Arg Arg Asp Ile Val Leu Lys Trp Glu Leu
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Leu Pro Glu Gln Asp Lys Met Leu Val Ala Val Lys Ala Leu Lys Glu
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Thr Met Leu Gln His Gln His Ile Val Arg Phe Phe Gly Val Cys Thr
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Glu Gly Arg Pro Leu Leu Met Val Phe Glu Tyr Met Arg His Gly Asp
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Leu Asn Arg Phe Leu Arg Ser His Gly Pro Asp Ala Lys Leu Leu Ala
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Ala Val Ala Ser Gln Val Ala Ala Gly Met Val Tyr Leu Ala Gly Leu
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His Phe Val His Arg Asp Leu Ala Thr Arg Asn Cys Leu Val Gly Gln
610 615 620

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Gly Leu Val Val Lys Ile Gly Asp Phe Gly Met Ser Arg Asp Ile Tyr
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Trp Met Pro Pro Glu Ser Ile Leu Tyr Arg Lys Phe Thr Thr Glu Ser
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Asp Val Trp Ser Phe Gly Val Val Leu Trp Glu Ile Phe Thr Tyr Gly
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Lys Gln Pro Trp Tyr Gln Leu Ser Asn Thr Glu Ala Ile Asp Cys Ile
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Thr Gln Gly Arg Glu Leu Glu Arg Pro Arg Ala Cys Pro Pro Glu Val
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Tyr Ala Ile Met Arg Gly Cys Trp Gln Arg Glu Pro Gln Gln Arg His
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Pro Glu Asn Ile Thr Glu Ile Phe Ile Ala Asn Gln Lys Arg Leu Glu
65 70 75 80

Ile Ile Asn Glu Asp Asp Val Glu Ala Tyr Val Gly Leu Arg Asn Leu
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Thr Ile Val Asp Ser Gly Leu Lys Phe Val Ala His Lys Ala Phe Leu
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Lys Asn Ser Asn Leu Gln His Ile Asn Phe Thr Arg Asn Lys Leu Thr
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Ser Leu Ser Arg Lys His Phe Arg His Leu Asp Leu Ser Glu Leu Ile
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Leu Val Gly Asn Pro Phe Thr Cys Ser Cys Asp Ile Met Trp Ile Lys
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Thr Leu Gln Glu Ala Lys Ser Ser Pro Asp Thr Gln Asp Leu Tyr Cys
165 170 175

Leu Asn Glu Ser Ser Lys Asn Ile Pro Leu Ala Asn Leu Gln Ile Pro
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Asn Cys Gly Leu Pro Ser Ala Asn Leu Ala Ala Pro Asn Leu Thr Val
195 200 205

Glu Glu Gly Lys Ser Ile Thr Leu Ser Cys Ser Val Ala Gly Asp Pro
 210 215 220 seq

Val Pro Asn Met Tyr Trp Asp Val Gly Asn Leu Val Ser Lys His Met
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Ser Asp Asp Ser Gly Lys Gln Ile Ser Cys Val Ala Glu Asn Leu Val
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Gly Glu Asp Gln Asp Ser Val Asn Leu Thr Val His Phe Ala Pro Thr
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Ile Thr Phe Leu Glu Ser Pro Thr Ser Asp His His Trp Cys Ile Pro
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Phe Thr Val Lys Gly Asn Pro Lys Pro Ala Leu Gln Trp Phe Tyr Asn
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Gly Ala Ile Leu Asn Glu Ser Lys Tyr Ile Cys Thr Lys Ile His Val
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Thr Asn His Thr Glu Tyr His Gly Cys Leu Gln Leu Asp Asn Pro Thr
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His Met Asn Asn Gly Asp Tyr Thr Leu Ile Ala Lys Asn Glu Tyr Gly
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Lys Asp Glu Lys Gln Ile Ser Ala His Phe Met Gly Trp Pro Gly Ile
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Asp Asp Gly Ala Asn Pro Asn Tyr Pro Asp Val Ile Tyr Glu Asp Tyr
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Gly Thr Ala Ala Asn Asp Ile Gly Asp Thr Thr Asn Arg Ser Asn Glu
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Pro Pro Glu Ser Ile Met Tyr Arg Lys Phe Thr Thr Glu Ser Asp Val
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Pro Trp Tyr Gln Leu Ser Asn Asn Glu Val Ile Glu Cys Ile Thr Gln
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