Table 1 Supplement: EGFR Mutations Associated with Disease Control (Partial Response, Complete Response, or Stable Disease)

Mutation	N					Number o	f unique	References
	Therapy-	PR	SD	CR	Disease	Patients ^a	Studies	
	response	responses	responses	responses	control total		*	
	instances				(PR+SD+CR)			1
A702S	2	2	0	0	2	2	1	1
A839T	2	2	0	0	2	2	2	2,3
A840A + V843I	1	1	0	0	1	1	1	4
A871T	1	1	0	0	1	1	1	3
Del18 E709-	2	0	1	0	1	2	1	5
T710insD								
Del19 E746-A750	215	147	34	10	191	203	56	1-4,6-33
(alone)								
Del19 E746-A750 +	2	2	0	0	2	2	2	4,34
A871V								

Del19 E746-A750 +	1	1	0	0	1	1	1	34
E804K								
Del19 E746-A750 +	1	0	1	0	1	1	1	20
G796A								
Del19 E746-A750 +	3	3	0	0	3	3	2	20,35
L858R								
Del19 E746-A750 +	1	0	1	0	1	1	1	3
L861Q								
Del19 E746-A750 +	1	1	0	0	1	1	1	1
V802F								
Del19 E746-A750 +	1	0	1	0	1	1	1	36
V851V								
Del19 E746-	1	0	1	0	1	1	1	26
A750;L747-T751								
Del19 E746-	1	1	0	0	1	1	1	14
A750insQ								
Del19 E746-E749	1	1	0	0	1	1	1	20
Del19 E746-E749 +	1	1	0	0	1	1	1	17
Del19 S752-P753								
Del19 E746I;L747-	1	0	1	0	1	1	1	11
S752								
Del19 E746-	1	1	0	0	1	1	1	8

S752insA								
Del19 E746-S752insI	1	1	0	0	1	1	1	14
Del19 E746-	5	4	0	1	5	5	4	6,8,12,37
S725insV								
Del19 E746-T751	2	1	1	0	2	2	2	12,16
Del19 E746-	10	6	2	0	8	9	8	1-3,7,8,12,38,39
T751insA								
Del19 E746-	1	0	1	0	1	1	1	7
T751insA + R803W								
Del19 E746-	1	1	0	0	1	1	1	23
T751insF								
Del19 E746-	1	1	0	0	1	1	1	37
T751insV								
Del19 E746-	1	1	0	0	1	1	1	4
T751insV + E865L								
Del19 E746V;L747-	3	3	0	0	3	3	3	19,40,41
S752								
Del19 E747-	1	1	0	0	1	1	1	31
P753insS								
Del19 E747-T750	1	1	0	0	1	1	1	31
Del19 K745-A750	1	0	1	0	1	1	1	42
Del19 K745-	4	3	1	0	4	4	1	1

A750insK								
Del19 K745-E749	1	1	0	0	1	1	1	43
Del19 K745-	1	0	1	0	1	1	1	11
E749insK								
Del19 L746-E749	1	1	0	0	1	1	1	13
Del19 L746-	2	2	0	0	2	2	1	41
E749;A750P								
Del19 L747-	5	4	0	1	5	5	3	2,3,14
A750insP								
Del19 L747-	6	3	1	0	4	3	1	39
A751insP								
Del19 L747-	2	0	2	0	2	1	1	36
A755insS								
Del19 L747-E749	1	1	0	0	1	1	1	7
Del19 L747-	4	3	0	1	4	4	3	17,18,40
E749;A750P								
Del19 L747-	3	2	0	0	2	3	1	13
E750insP								
Del19 L747-	1	1	0	0	1	1	1	44
P752insPL								
Del19 L747-P753	5	5	0	0	5	5	2	13,45
Del19 L747-	14	13	1	0	14	14	10	4,6-8,28,40,44-47

P753insS								
Del19 L747-	1	1	0	0	1	1	1	12
P753insS + L861Q								
Del19 L747-S752	8	5	1	1	7	7	6	1,11,14,26,33,39
Del19 L747-	1	1	0	0	1	1	1	41
S752;P753S								
Del19 L747-	2	2	0	0	2	2	2	10,45
S752insQ								
Del19 L747-	1	1	0	0	1	1	1	46
S752insV								
Del19 L747-T751	8	7	1	0	8	8	6	4,7,13,26,48,49
Del19 L747-T751 +	1	1	0	0	1	1	1	27
R776S								
Del19 L747-	1	1	0	0	1	1	1	23
T751insA								
Del19 L747-	1	1	0	0	1	1	1	12
T751insF								
Del19 L747-	1	1	0	0	1	1	1	8
T751insP								
Del19 S752-I759	1	1	0	0	1	1	1	14
Del19 unspecified	118	85	13	9	107	109	33	77– 105 ^{15,27,50,51}

Del19 unspecified +	10	7	1	1	9	10	2	52,53
L858R								51.52
Del19 unspecified +	2	1	1	0	2	2	2	51,53
L861Q								
Del19 unspecified +	1	0	1	0	1	1	1	51
L861Q + G873E								
Del19 unspecified +	1	1	0	0	1	1	1	54
V774L								
E709Q	1	1	0	0	1	1	1	7
E746G	1	1	0	0	1	1	1	5
E746V	1	0	1	0	1	1	1	55
E868V	2	0	2	0	2	1	1	36
Exon19 unspecified	1	1	0	0	1	1	1	56
F712S + D855G +	1	1	0	0	1	1	1	3
E868G								
G719A	11	6	1	0	7	11	5	8,11,12,23,49
G719A + E709A	1	1	0	0	1	1	1	57
G719A + E709K	1	1	0	0	1	1	1	8
G719A + G779C	1	1	0	0	1	1	1	51
G719A + S720F	1	1	0	0	1	1	1	34
G719C	2	2	0	0	2	2	2	9,47
G719C + S768I	1	1	0	0	1	1	1	34

G719D	3	1	2	0	3	3	2	5,55
G719D + L861Q	1	1	0	0	1	1	1	5
G719S	1	0	1	0	1	1	1	14
G719S + I706T +	1	1	0	0	1	1	1	5
Q701L								
G721A	2	1	0	1	2	2	1	1
G779S	1	0	1	0	1	1	1	54
G857E	2	0	2	0	2	2	2	30,55
G857R	1	1	0	0	1	1	1	3
G863D	2	2	0	0	2	2	2	7,21
G863S	1	0	1	0	1	1	1	55
G874S	1	0	1	0	1	1	1	55
I744V	1	1	0	0	1	1	1	1
K708M	1	1	0	0	1	1	1	1
K846R	2	2	0	0	2	2	2	2,3
L692P	2	0	1	0	1	2	2	30,55
L703P	1	0	1	0	1	1	1	1
L718P	2	2	0	0	2	2	2	12,23
L747S	1	0	1	0	1	1	1	55
L838L	1	1	0	0	1	1	1	21
L838P	2	2	0	0	2	2	2	4,5
L858	6	2	2	0	4	3	1	58

L858R (alone)	235	156	47	7	210	225	62	1-4,6-22,24-
								29,31,37,39,40,42
								,45-48,50,59
								70,73,74,7
								8–
								80,83,85-
								87,89,90,9
								2,94,99,10
X 0.200 . D.Z.(1X) ()								4,107–117
L858R + D761Y (de	2	0	1	0	1	2	2	29,118
novo)								
L858R + E709A	1	0	1	0	1	1	1	15
L858R + E709G	3	2	0	0	2	3	1	15
L858R + E709K	1	1	0	0	1	1	1	81
L858R + E758G	2	2	0	0	2	2	2	14,44
L858R + G721S	1	0	1	0	1	1	1	29
L858R + G779S	3	3	0	0	3	3	2	44,119
L858R + H850D	4	0	2	0	2	4	2	17,44
L858R + K860I	1	1	0	0	1	1	1	44
L858R + L833V	1	1	0	0	1	1	1	84
L858R + L861F	1	1	0	0	1	1	1	44
L858R + R776C	2	2	0	0	2	2	2	16,86
L858R + R776H	1	1	0	0	1	1	1	44
L858R + S768I	4	4	0	0	4	4	4	15,17,44,1

			1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1				19
L858R + V689L	1	1	0	0	1	1	1	32
L858R + V802F	1	1	0	0	1	1	1	11
L858R + V834L	1	1	0	0	1	1	1	44
L858R + V843I	1	0	1	0	1	1	1	81
L861Q (alone)	14	7	5	0	12	13	8	13,15,18,4 3,55,57,73, 76
L861Q + K860I	1	0	1	0	1	1	1	44
L861Q + R776H	2	0	2	0	2	2	2	¹³ ,44
L861Q + R831H	2	0	2	0	2	2	2	¹³ ,44
L861R	3	1	1	0	2	3	3	30 ^{5,13}
L861R+ R831C	1	1	0	0	1	1	1	5
N700D	1	1	0	0	1	1	1	18
N756D	1	1	0	0	1	1	1	25
N826S	1	0	1	0	1	1	1	18
P691S	1	0	1	0	1	1	1	81
P699S	1	1	0	0	1	1	1	13
R748W	1	0	1	0	1	1	1	1
R832L	1	0	1	0	1	1	1	1
R836C	1	1	0	0	1	1	1	13
S720P	1	1	0	0	1	1	1	18
S768I	1	1	0	0	1	1	1	120

S768I + L815L	1	1	0	0	1	1	1	92
S784F + V786M	1	1	0	0	1	1	1	121
S784P	1	1	0	0	1	1	1	1
S921R	1	0	1	0	1	1	1	1
T783A	1	1	0	0	1	1	1	18
V689M	1	1	0	0	1	1	1	18
V726M	1	0	1	0	1	1	1	81
V740A	2	2	0	0	2	2	1	1
V740L	2	1	0	1	2	2	1	1
V742A	1	0	1	0	1	1	1	14
V765A	1	1	0	0	1	1	1	18
V765M + L798H +	3	3	0	0	3	3	1	13
K806E + L814P								
V774A	1	1	0	0	1	1	1	15
V819V	1	0	1	0	1	1	1	92
V834I	1	1	0	0	1	1	1	15
V843I	1	0	1	0	1	1	1	81
V851I	2	0	1	0	1	2	2	14,15
W731Stop	3	0	2	0	2	3	3	12,13,24
Y727 Н	1	0	1	0	1	1	1	81
Wild-type	88	7	57	0	64	83	11	33,34,56,7 0,78,85,88,

				91,98,122,
				123

⁺Response is defined as patients achieving CR (complete response), PR (partial response), or SD (stable disease) as defined by the Response Evaluation Criteria in Solid Tumors (RECIST) (7) following treatment with EGFR TKI (gefitinib or erlotinib).

^a Number of unique patients does not match the number of therapy-response entries since one patient may have been treated with EGFR TKIs in different lines of treatment and thus may have multiple associated therapy-response entries.

^{*}Number of unique studies refers to the number of different studies that encompass all of the patients with a particular mutation in DIRECT.

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