

Supplementary Table 1.

Systematic functional analysis of NOD2

Point Mutants	clone ID#	NF-kB activation		NF-kB activ		Mutations	Region	Mouse conservativity	Notes
		overexpression	WB	(-)	MDP				
1-89U	100.6	(+)	1.6	30.9	E13K	NC	absent		
1-45	198.3	(+)	1.7	15.8	G25A	CARD1	absent		
1-004	0.6	(+)	1.9	5.3	Q31H	CARD1	+		
1-91U	42.6	(+)	3.0	4.8	E69K	CARD1	+		
1-84	451.0	(+)	2.2	6.8	T91I	CARD1	+		
1-15	0.6	(+)	1.1	1.6	A106V	CARD1	E		
1-30	0.3	(+)	1.3	1.3	L145P	CARD2	+		
1-57	274.3	(+)	0.8	5.8	S147T	CARD2	N	D.N.	
1-77	16.1	(+)	4.6	42.0	M152L	CARD2	+		
1-52	294.0	(+)	1.0	11.0	C167S	CARD2	+		
1-93U	2.3	(-)	0.6	0.5	F175S	CARD2	S		
1-6	0.8	(-)	0.7	1.3	R180K	CARD2	+		
1-41	19.8	(+)	0.9	6.1	G194R	CARD2	+		
1-28	309.0	(+)	1.6	33.9	L200I	CARD2	+		
1-26	245.3	(+)	1.4	18.0	Q204R	CARD2	R		
1-73	294.6	(+)	1.0	8.9	A216V	CARD2	+		
1-48	ND	(-)	0.8	1.3	A232P	NOD	T		
1-91L	54.1	(+)	1.5	35.5	L246F	NOD	+		
1-86L	102.4	(+)	3.6	28.0	A265T	NOD	A		
1-72	456.4	(+)	1.5	13.7	A274V	NOD	+		
1-31	385.4	(+)	2.1	39.1	E279K	NOD	+		
1-17	206.5	(+)	1.5	7.8	V295M	NOD	I		
1-60L	52.2	(+)	0.4	0.6	V295E	NOD	I		
1-88L	54.2	(+)	0.7	0.6	F327Y	NOD	+		
1-89L	9.7	(-)	0.6	1.2	C333Y	NOD	+		
1-001	115.2	(+)	1.3	1.3	S344T	NOD	+		
1-39L	65.8	(+)	0.8	30.3	R346W	NOD	+		
1-50L	86.0	(+)	1.0	14.1	C353Y	NOD	+		
1-002	92.3	(+)	0.9	6.6	R373C	NOD	+		
B-box	86.7	(+)	0.8	0.9	D379A	NOD	+	R373C is a mutation reported in CD patients (Lesage et al., 2002)	
2-7	135.9	(+)	1.3	19.5	R393C	NOD	+		
2-n32	ND	(+)	2.9	2.0	S396Y	NOD	+		
2-n14	ND	(+)	1.0	0.7	T401I	NOD	+		
2-n12	ND	(+)	0.0	0.0	T401S	NOD	+		
2-n4	ND	(+)	0.0	0.9	F408L	NOD	+		
2-n33	ND	(+)	9.8	139.7	K421M	NOD	+		
2-35	105.9	(+)	2.8	1.9	A429T	NOD	+		
2-n26	ND	(+)	1.3	93.8	R439C	NOD	+		
2-n42	ND	(+)	0.8	16.0	I443D	NOD	Q		
2-n41	ND	(+)	7.3	93.5	I452F	NOD	+		
2-n3	ND	(+)	1.7	17.8	R457M	NOD	+		
2-47	97.2	(+)	2.1	11.9	R471L	NOD	Q		
2-15	144.6	(+)	1.2	6.7	H480Y	NOD	+		
2-008	47.5	(+)	0.7	0.8	V492E	NOD	+		
2-8	84.2	(+)	0.7	14.0	F521S	NOD	+		
2-n5	ND	(+)	2.9	62.5	F521L	NOD	+		
2-41	263.8	(+)	1.2	8.0	A525V	NOD	+		
2-21	139.4	(+)	0.8	6.5	H549Y	NOD	+		
2-24	120.3	(+)	1.1	5.9	G557S	NOD	+		
2-n27	ND	(+)	7.0	78.7	M560V	NOD	+		
2-34	128.6	(+)	1.3	14.1	V564M	NOD	+		
2-n75	ND	(+)	1.1	7.5	Q569M	NOD	+		
2-33	97.6	(+)	1.2	14.5	G599S	NOD	S		
2-54	93.7	(+)	1.5	9.9	E600Q	NOD	+		
3-A03	118.4	(+)	18.5	131.8	P623R	NOD	V		
3-A11	78.0	(+)	0.3	0.3	L626F	NOD	+		
3-E2U	116.5	(+)	11.0	142.1	R634W	NOD	+		
3-D3U	59.7	(+)	1.0	1.5	P639S	NOD	L		
3-D07	85.8	(+)	33.9	396.2	T646M	NOD	N		
3-H9U	98.5	(+)	2.1	19.0	C648Y	NOD	L		
3-B09	ND	(+)	8.5	94.4	G654R	NOD	V		
3-D4U	118.0	(+)	1.1	1.9	K655E	NOD	+		
3-E07	107.0	(+)	7.6	108.5	V659M	NOD	E		
3-D11	122.3	(+)	94.5	106.7	P669H	NOD	+		
3-B11U	82.2	(+)	4.8	54.0	Q672R	NOD	+		
3-H11	150.3	(+)	238.8	277.0	I673F	NOD	+		
3-B5U	148.4	(+)	2.2	1.9	G680R	NOD	+		
3-E3U	58.2	(+)	0.6	1.1	G680W	NOD	+		
3-E04	75.9	(+)	8.9	109.1	L690M	NOD	+		
3-B6U	124.4	(+)	0.5	1.2	L690P	NOD	+		
3-B03	128.1	(+)	17.7	187.8	A691V	NOD	+		
3-F02	100.8	(+)	8.6	19.9	A691T	NOD	+		
3-O05	131.2	(+)	1.6	15.1	E692D	NOD	A		
3-E06	57.0	(+)	0.5	1.1	S714N	NOD	+		
3-D06	87.7	(+)	1.5	38.7	P723S	NOD	+		
3-H7U	109.0	(+)	3.1	1.9	H734L	NOD	+		
3-A04	161.4	(+)	6.2	2.1	E751K	LRR1	+		
3-C6L	112.7	(+)	7.5	57.5	A759V	LRR2	V		
3-E3L	113.1	(+)	6.6	92.7	G761S	LRR2	R		
3-C11L	116.8	(+)	5.9	64.3	L762M	LRR2	+		
3-B7L	124.4	(+)	1.1	1.9	G775D	LRR2	+		
3-H4L	124.5	(+)	3.4	2.9	C779Y	LRR2	+		
3-D4L	129.8	(+)	3.0	64.0	V793M	LRR3	+	V793M was reported in a CD patient but exhibit WT activity of NOD2 (Chamaillard et al., 2003c and present data)	
3-A01	153.8	(+)	ND	ND	A794T	LRR3	+		
3-H7L	93.5	(+)	16.4	58.7	I809N	LRR3	V		
3-D08	97.2	(+)	14.8	225.4	P812T	LRR3	+		
3-H9L	130.2	(+)	4.8	25.6	D824N	LRR4	+	D824N was found in a CD and UC patient (Lesage et al., 2002) but has the activity comparable with WT Nod2	
3-E2L	115.0	(+)	0.9	1.8	D829Y	LRR4	+		
3-B6L	117.8	(+)	4.8	2.3	G831D	LRR4	+		
3-A10	120.6	(+)	11.3	201.6	A860G	LRR5	+		
4-O03	134.2	(+)	1.1	12.3	L876I	LRR6	+		
3-E10	79.1	(+)	0.1	0.1	G879R	LRR6	+		
3-B08	91.5	(+)	1.3	1.5	T884I	LRR6	+		
4-F11	106.8	(+)	1.3	48.3	Q889P	LRR6	E		



2-O10	53.9	(+)	0.5	0.8	P486L	G534C				NOD		
2-36	54.2	(+)	0.8	0.9	G446S	F524Y				NOD		
2-n15	ND	(+)	0.8	1.9	N409K	L535M				NOD		
3-C1U	ND	(+)	0.7	0.6	Q607H	L663R				NOD		
3-C6U	78.4	(+)	0.6	0.6	L629F	G677W				NOD		
3-B06	94.1	(+)	11.0	22.9	<b>L690P</b>	<b>G831D</b>				NOD,LRR		
3-E02	75.0	(+)	0.4	0.4	<b>R634W</b>	<b>D829Y</b>				NOD,LRR	*	
1-71	0.2	(+)	1.0	0.7	V46A	V56I				CARD1		
1-88U	0.6	(-)	0.5	0.8	S30C	W123L				CARD1		
1-91	0.5	(+)	0.9	1.4	<b>E556K</b>	<b>L248F</b>				CARD1,NOD	*	
1-1U	0.7	(+)	0.5	0.4	V142A	F119I				CARD2	*	
1-76	0.7	(+)	0.8	0.9	F175I	T253V				CARD2,NOD	*	
1-O08	0.7	(-)	0.6	0.2	F161I	E324D				CARD2,NOD	*	
1-12	0.7	(+)	1.1	0.3	G96E	Q138P				CARDs		
1-74	0.9	(+)	1.0	1.2	C29F	A156P				CARDs		
3-A8L	126.1	(+)	ND	ND	D798E	Q809H				LRRs		
2-n10	ND	(+)	ND	ND	T526I	S566P				NOD		
1-10	336.9	(+)	1.1	21.8	G25C	H83R	Q108H			NC,CARD1		
3-E05	135.2	(+)	7.9	78.8	<b>T646M</b>	S658R	H669Y			NOD		
1-55U	279.4	(+)	1.7	56.3	S55N	Q108H	C219Y			NC,CARDs		
1-90	221.0	(+)	1.3	11.1	Q37L	P117H	D262N			CARD1,NOD		
1-25	97.6	(+)	1.3	21.8	L187I	G319A	L367I			CARDs,NOD		
1-11	203.1	(+)	1.0	16.4	P269A	K341R	<b>R346W</b>			NOD		
2-n21	ND	(+)	2.5	12.5	L434I	R468H	P528L			NOD		
3-D02	66.3	(+)	3.7	25.0	N631I	A707T	V816L			NOD,LRRs		
2-n72	ND	(+)	5.9	49.0	T405I	G504R	A525T			NOD		
3-A08	98.8	(+)	20.5	147.3	W687L	R702Q	D798E			NOD,LRR	R702W was reported to be associated to CD (Hugot et al., 2001 and Ogura et al., 2001)	
3-B07	107.1	(+)	4.5	58.6	A725T	A726T	<b>G775D</b>			NOD,LRR		
3-C01	43.7	(+)	8.4	57.8	Q607H	L663R	L782V			NOD,LRR		
3-A05	189.3	(+)	13.8	196.6	S618N	L767F	S773G			NOD,LRRs	*	
3-B11	83.9	(+)	4.0	44.5	<b>Q672R</b>	T770R	<b>I805N</b>			NOD,LRRs	*	
3-B05	94.5	(+)	13.6	114.9	<b>G680R</b>	<b>C779Y</b>	<b>N872K</b>			NOD,LRRs	*	
3-C11	106.7	(+)	1.1	19.1	S683T	A735V	<b>L762M</b>			NOD,LRRs	*	
3-H1	58.5	(+)	0.4	32.9	L662S	A725T	<b>D824N</b>			NOD,LRRs	*	
1-87	370.3	(+)	1.9	13.4	A105D	E215D	H287R			CARDs,NOD		
4-D3	103.2	(+)	3.1	30.8	Q927H	A946V	V955I			LRRs	V955I was reported in CD and UC patients (Lesage et al., 2002)	
<b>3-G08</b>	<b>109.3</b>	<b>(+)</b>	<b>618.8</b>	<b>454.4</b>	<b>A616I</b>	<b>L769V</b>	<b>I836F</b>			NOD,LRRs		
3-F01	98.0	(+)	0.4	1.2	S732N	E778K	P792R			NOD,LRRs	*; E778K was reported in a CD patient and was shown to be a loss-of-function mutation (Chamaillard et al., 2003c)	
4-D11	86.9	(+)	1.2	0.9	A922D	K989N	G1020W			LRRs		
3-E12	116.1	(+)	0.3	0.4	P668S	G738R	R790Q			NOD,LRRs	R790Q was reported in CD but exhibits WT Nod2 activity (Chamaillard et al., 2003c)	
1-27L	81.4	(+)	0.6	0.9	L276M	V328F	L336M			NOD		
1-22	0.7	(+)	1.0	4.8	V46A	A140V	R143W			CARDs	A140T was reported in CD and UC patients (Lesage et al., 2002)	
1-54U	0.6	(+)	0.4	0.8	P24Q	L199H	T228S			NC,CARD2,NOD		
1-7U	0.5	(+)	0.9	0.4	L57R	H75R	A110T			CARD1		
1-88	0.6	(-)	0.7	1.1	S30C	W123L	F327Y			CARD1,NOD		
1-50U	1.0	(+)	0.5	0.8	R139L	A199G	S234Y			CARD2,NOD	R138Q was reported in a CD patient and was shown to be a loss-of-function mutation (Chamaillard et al., 2003c)	
1-35	1.3	(+)	0.8	1.4	G52A	A110T	Y165N			CARDs,NOD		
1-58	0.4	(+)	0.9	0.9	M28I	S47P	A188V			CARDs		
1-83U	0.5	(+)	1.1	0.9	G96R	T97A	N151I			CARDs		
3-F04	107.7	(+)	ND	ND	<b>V659M</b>	L840M	Y882H			NOD,LRRs		
3-C06	48.4	(+)	ND	ND	L629F	G677W	<b>A759V</b>			NOD,LRR	*	
3-F05	101.1	(+)	ND	ND	M749I	E751G	E778Q			LRRs	*; E778K was reported in a CD patient and was shown to be a loss-of-function mutation (Chamaillard et al., 2003c)	
2-42	126.2	(+)	0.5	4.6	<b>R393C</b>	A428D	D512V	L553V		NOD		
1-2	63.7	(+)	1.0	15.9	A16V	L57M	L155M	R159L		NC,CARDs		
1-21	57.8	(+)	1.6	14.7	A36E	S116P	K221T	D291E		CARDs,NOD	D291N was reported in a CD patient and was shown to be a loss-of-function mutation (Chamaillard et al., 2003c)	
1-24	358.3	(+)	1.9	27.9	P117T	V208A	A264S	P371S		CARDs,NOD		
1-32	107.1	(+)	1.4	27.8	G6D	M29K	<b>P177S</b>	L276M		CARDs,NOD		
3-H4U	89.3	(+)	4.2	73.6	A619V	C648G	Q664K	R716H		NOD		
1-96	ND	(+)	4.5	41.1	G96C	L214M	T284S	M339K		CARDs,NOD	*; Loss of NF-kB activation in overexpression studies was confirmed at least in four experiments	
4-B6	80.4	(+)	1.2	7.1	V942M	L967P	R968P	E1001K		LRRs		
2-n58	ND	(+)	1.0	1.5	E383D	R393P	L415V	C561S		NOD		
1-51	86.3	(+)	1.0	1.3	G25S	V208F	T284I	C354R		NC,CARD2,NOD		
1-39	217.4	(+)	0.9	1.5	Q37H	M152I	L226R	<b>R346W</b>		CARDs,NOD		
1-83L	31.1	(+)	0.6	0.5	A266D	T275S	S306N	<b>R346W</b>		NOD		
2-4	26.1	(+)	0.5	1.5	L410H	S431L	<b>R439C</b>	I617V		NOD	S431L was reported in a CD patient but exhibits WT activity of Nod2 (Chamaillard et al., 2003c)	
1-66U	1.3	(+)	0.4	0.6	R15T	S47T	W93C	R138W		NC,CARDs	*; R138Q was reported in a CD patient and was shown to be a loss-of-function mutation (Chamaillard et al., 2003c)	
1-7	0.3	(+)	0.9	0.6	L57R	H75R	A110T	A261P		CARD1,NOD	*	
1-1	0.3	(+)	1.0	1.2	V142A	D290E	G302C			CARD2,NOD	*	
1-50	0.5	(+)	1.2	0.9	R138L	A196G	S234Y			CARD2,NOD	*; R138Q was reported in a CD patient and was shown to be a loss-of-function mutation (Chamaillard et al., 2003c)	
1-60U	1.3	(+)	0.5	1.5	E43D	R86S	I174V	A188P		CARDs		
1-13	0.6	(-)	1.0	1.5	L84M	L88I	I174N	Q323H		CARDs,NOD		
1-69	1.5	(+)	0.9	1.0	G48E	A131V	P285L	L288F		CARDs,NOD		
1-34U	1.9	(+)	0.6	0.9	C29Y	G78C	R138W	R235H		CARDs,NOD	R138Q and R235C were reported in a CD patient and was shown to be a loss-of-function mutation (Chamaillard et al., 2003c)	
3-F10	89.0	(+)	ND	ND	A660G	A726V	V774L	S828L		NOD,LRRs		
2-n79	ND	(+)	ND	ND	<b>R393C</b>	R468H	G481S	L570I		NOD		
1-14	40.5	(+)	1.5	11.7	L20F	P213H	V230L	C247Y	H313L	CARDs,NOD		
3-A06	70.7	(+)	5.4	94.6	L602I	<b>T646M</b>	Q704R	K757M	A783T	NOD,LRRs		
3-A09	109.0	(+)	4.0	52.4	V807L	L822S	L835F	N852K	A868V	LRRs		
2-n56	ND	(+)	0.7	1.0	S425T	R439H	E475A	F584I	G590D	NOD		
1-47U	58.7	(+)	0.7	0.3	R19K	A112S	Q135H	E169G	A197V	NC,CARDs		
1-55	40.3	(+)	0.5	0.8	S55N	Q108H	C219Y	R311Q	L349F	CARDs,NOD	*; R311W was reported in a CD patient but exhibits WT Nod2 activity (Chamaillard et al., 2003c)	
2-10	33.9	(+)	1.1	1.0	F384V	Q412E	T510N	<b>H549Y</b>	L570F	NOD		
1-60	0.7	(+)	0.9	1.0	E43D	R86S	I174V	A188P	<b>V295E</b>	CARDs,NOD		
1-66	0.5	(+)	0.8	1.4	R15T	S47T	W93C	R138W		NC,CARDs,NOD	R138Q was reported in a CD patient and was shown to be a loss-of-function mutation (Chamaillard et al., 2003c)	
1-54	0.4	(+)	0.8	0.7	P24Q	L199H	T228S	V328I		NC,CARD2,NOD		
3-H4	123.9	(+)	ND	ND	A619V	C648G	Q664K	R716H	<b>C779Y</b>	NOD,LRRs		
3-F08	108.8	(+)	ND	ND	E752D	R753W	R791L	N853S	D857Y	NOD,LRRs	R791Q and N853S were reported in a CD patient respectively (Lesage et al., 2002)	
1-67	25.0	(+)	0.9	3.4	H75Q	S127H	Q164R	V263M	L288F	T347I	CARDs,NOD	
1-4U	0.8	(+)	0.5	0.5	P24R	M28I	A107T	A112V	I141A	P177A	NC,CARDs	
1-47	0.6	(+)	0.9	0.9	R15K	A112S	Q135H	E169G	A197V	<b>V256I</b>	<b>N289S</b>	CARDs,NOD
1-37	5.0	(+)	1.5	31.7	E3stop	T229S	L309M			NC,NOD	N289S was reported in a CD patient and was shown to be a loss-of-function mutation (Chamaillard et al., 2003c)	
1-88	0.5	(-)	0.9	1.4	<b>C29stop</b>					CARD1		
1-29	1.0	(-)	1.5	1.6	A16T	<b>F34delT</b>				CARD1		
1-56	1.6	(-)	1.0	1.0	G25D	<b>F34delT</b>				CARD1		
1-38	1.2	(-)	1.1	0.9	<b>V56delT</b>					CARD1		
1-49	1.0	(-)	0.9	1.0	<b>E72stop</b>					CARD1		
1-53	1.1	(-)	0.9	1.2	<b>W98stop</b>					CARD1		
1-O03	0.7	(-)	0.5	0.3	L88I	<b>Q108stop</b>				CARD1		
1-94	0.8	(-)	1.2	1.1	<b>Q135stop</b>					CARD2		
1-46	0.6	(-)	0.7	0.5		<b>L172delT</b>				CARD2		
1-36	1.5	(-)	1.0	1.5	H146N	<b>Q179stop</b>				CARD2		

Truncation mutants

1-81	0.8	(-)	0.8	0.8	A140V	Q201stop				CARD2
1-18	3.1	(-)	1.1	1.0	A106V	A217G	W260stop			NOD
1-34	0.8	(-)	1.1	1.5	C29Y	G78C	R138W	R235H	Q335stop	NOD
1-34L	115.9	(-)	0.6	0.5	Q335stop					NOD
1-93L	96.5	(-)	1.3	0.6	D262N	C354stop				NOD
1-93	164.7	(+)	0.9	2.4	P177S	D262N	C354stop			NOD
1-43L	76.3	(-)	0.6	0.7	G299R	Q365stop				NOD
1-43	45.2	(-)	0.6	0.6	Q79L	V208I	G299R	Q365stop		NOD
2-31	130.1	(+)	1.5	1.2	L376delT					NOD
1-8	181.8	(+)	1.2	0.8	S136I	P285L	P342S	T377delA		NOD
1-8U	99.0	(+)	0.4	0.9	P285L	P342S	T377delA			NOD
2-n48	ND	(+)	0.4	0.7	G413S	P427delI				NOD
2-22	91.3	(+)	0.9	2.0	G504delG					NOD
2-25	103.3	(+)	0.8	1.3	C483Y	G505delG				NOD
2-n80	ND	(+)	ND	ND	H394N	P397T	A419G	L485V	S506delC	NOD
2-51	139.3	(+)	ND	ND	Y514stop					NOD
2-n17	ND	(+)	0.7	1.6	T401S	M513I	T526delC			NOD
2-n9	ND	(+)	ND	ND	S396F	T526insC	C561S			NOD
2-n81	ND	(+)	ND	ND	R459C	T526delC	A572P			NOD
2-n86	ND	(+)	ND	ND	H460N	T526delC				NOD
2-n65	ND	(+)	1.1	1.2	T526del	Q568L				NOD
2-n62	ND	(+)	0.9	1.3	T526del	L585M				NOD
2-26	35.4	(+)	1.0	1.3	P527delC					NOD
2-n37	ND	(+)	2.0	2.7	R420L	P528delC				NOD
2-n29	ND	(+)	1.2	0.9	G451A	G534delG				NOD
2-n71	ND	(+)	0.7	1.4	Q568stop					NOD
2-1	126.1	(+)	0.9	0.9	S83insA					NOD
3-G05	160.3	(+)	233.6	224.1	Q664stop					NOD
3-O01	106.1	(+)	ND	ND	W687stop					NOD
3-F07	67.4	(+)	80.2	140.4	W709stop					NOD
3-F03	65.0	(+)	11.6	24.5	W741stop					LRR1
3-O09	116.1	(+)	42.1	55.8	K768stop					LRR2
3-D05	97.1	(+)	31.7	45.4	L795insC					LRR3
3-G04	92.3	(+)	93.4	81.9	Y821stop					LRR4
3-G10	106.1	(+)	283.4	295.5	K854delA					LRR5
3-D3L	147.3	(+)	3.7	4.1	L855stop					LRR5
3-D03	68.8	(+)	ND	ND	P639S	L855stop				LRR5
4-C10	93.7	(+)	1.2	1.4	W907stop					LRR7
4-B9	101.1	(+)	2.9	4.3	G894E	E921K	W931stop			LRR8
4-D4	80.6	(+)	1.2	1.2	E964stop					LRR9
4-D10	106.3	(+)	1.0	1.1	E958stop					LRR9
4-F9	86.9	(+)	0.9	0.9	K953stop					LRR9
4-C4	67.1	(+)	1.4	2.0	N965delA					LRR9
4-H2	111.6	(+)	0.8	0.9	L901V	C973stop				LRR9
4-C1	67.5	(+)	0.6	0.7	G978delG					LRR9
4-F10	104.2	(+)	0.6	0.7	I987delA					LRR10
4-G9	118.9	(+)	2.1	1.2	I987insA					LRR10
4-D6	92.6	(+)	0.9	0.8	V890M	A922T	E963Q	E1001stop		LRR10
Controls	positive	(+)	4.0	55.0						
	negative	(-)	1.8	1.3						

A140T was reported in CD and UC patients (Lesage et al., 2002)

R138Q and R235C were reported in a CD patient and was shown to be a loss-of-function mutation (Chamaillard et al., 2003c)

#### Abbreviations and colour code

WB	Western Blot
*	Derived mutant clone from our present mutagenesis analysis
D.N.	Dominant negative mutant
NC	Region N-terminal to CARDs
(-)	No protein was detected by Western Blot analysis using anti-Nod2 polyclonal antibody (epitope located between amino acids 354 and 376)
(+)	Protein was detected by Western Blot analysis using anti-Nod2 polyclonal antibody
BS	Blau syndrome
CD	Crohn's Disease
ND	Not determined
*	NF-κB activation results represent mean of normalised values from triplicate cultures as described in methods

#### coloured high lights

light green	ability to respond to synthetic MDP is retained
light orange	ability to respond to MDP is lost or partially lost (less than 25% of the wild-type response) but mutant can activate NF-κB in overexpression studies
yellow	ability to activate NF-κB in overexpression condition is lost
light blue	constitutive NF-κB activation

#### coloured letters

blue	deletional, insertional or nonsense mutation
orange	also found in mutants with ability to respond to MDP
bold	also found in mutants with a single amino acid substitution