

INFORME DE BÚSQUEDA DE PATENTES PARA EL RADICADO N° 13 - 168686 - 00002 - 0000						
CRITERIOS PARA LA BÚSQUEDA (anexar pantallazo o reporte en PDF, junto con los booleanos utilizados)						
Palabras clave utilizadas		Receptor II Del Factor de Crecimiento Transformante – BETA, Anticuerpo TGFbetaRII, Ligando de unión a TGFbetaRII, dominio variable de inmunoglobulina TGFbetaRII				
CLASIFICACIONES INTERNACIONALES UTILIZADAS PARA LA BÚSQUEDA		C07K 16/28.				
BASES DE DATOS CONSULTADAS.						
Patentscope		Google/patents				
NCBI		PatBase				
Espacenet		Sciencedirect				
Lens						
INFORMES DE EXÁMENES REALIZADOS EN OTRAS OFICINAS (documentos patentes, literatura no patente etc...)						
Oficina	Fecha del examen o de reporte de búsqueda de documentos	Anterioridades encontradas para el examen o reportados en el examen de búsqueda(relacionarlos todos)	Reiv. afectadas	RELEVANCIA (requisito que afecta)	FUERON TENIDOS EN CUENTA PARA EL EXAMEN EN LA OFICINA COLOMBIANA	
					SI	NO
EUROPEA	12/03/2012	WO211/012609 (Publicado 3 de febrero de 2011)	1 - 31	Nivel Inventivo		X
		WO2010/053814	1 - 31	Nivel Inventivo	X	
		EP124876	1 - 31	Nivel Inventivo		X
		WESOLOWSKI J. <i>et al.</i> , 2009. Single domain antibodies: promising experimental and therapeutic tools in infection and immunity	1 - 31	Nivel Inventivo	X	
		DEMAREST S. & GLASER S. 2008. Antibody therapeutics, antibody engineering, and the merits of protein stability	1 - 31	Nivel Inventivo		X
		SAERENS D. <i>et al.</i> , 2008. Single-domain antibodies as building blocks for novel therapeutics	1 - 31	Nivel Inventivo		X
		CHEN W. <i>et al.</i> , 2008. Construction of a large phage-displayed human antibody domain library with a scaffold based on a newly identified highly soluble, stable heavy chain variable domain.	1 - 31	Nivel Inventivo		X
USPTO	13/01/2015	WO211/012609 (Publicado 3 de febrero de 2011)	1 - 31	Nivel Inventivo		X
		WO2010/053814	1 - 31	Nivel Inventivo	X	
		EP124876	1 - 31	Nivel Inventivo		X
		WESOLOWSKI J. <i>et al.</i> , 2009. Single domain antibodies: promising experimental and therapeutic tools in infection and	1 - 31	Nivel Inventivo	X	

		immunity				
		DEMAREST S. & GLASER S. 2008. Antibody therapeutics, antibody engineering, and the merits of protein stability	1 - 31	Nivel Inventivo		X
		SAERENS D. <i>et al.</i> , 2008. Single-domain antibodies as building blocks for novel therapeutics	1 - 31	Nivel Inventivo		X
		CHEN W. <i>et al.</i> , 2008. Construction of a large phage-displayed human antibody domain library with a scaffold based on a newly identified highly soluble, stable heavy chain variable domain.	1 - 31	Nivel Inventivo		X
DOCUMENTOS ADICIONALES ENCONTRADOS POR EL EXAMINADOR DE ACUERDO A LOS CRITERIOS DE BÚSQUEDA.						
ALLEN C. <i>et al.</i> , 2008. Transformation by Oncogenic Ras Expands the Early Genomic Response to Transforming Growth Factor in Intestinal Epithelial Cells						
GOMEZ E. <i>et al.</i> , 2010. The TGFbeta co-receptor endoglin modulates the expression and transforming potential of H-Ras						
ROBERTS <i>et al.</i> , 1990. 'The transforming growth factor-betas, Peptide Growth Factors and Their Receptors'						
WO 0029004 (A1)						
US 2005164301 (A1)						
BÚSQUEDA DE SECUENCIAS						
Número de depósito / patente y N° de secuencia						
% de identidad						
SEQ ID NO (de la solicitud)	NCBI	The Lens	EMBL-EBI	DDJB	Genome Quest	
NA	-	-	-	-	-	

Percent Identity Matrix - created by Clustal2.1

1: SEQ10			100.00	98.33	89.92	89.08	88.33	89.17
87.50	88.33	90.00	90.00	88.33	88.33	90.00	90.83	89.17
88.33	89.17	88.33	87.50	88.33	89.17	89.17	89.17	88.33
87.50	88.24	89.83	90.52	89.17	85.00	88.03	88.89	87.07
83.19	84.87	85.59	85.71	87.29	87.50	86.32	89.08	85.83
88.98	88.03	87.18	85.83	92.37	88.14	90.43	85.00	89.92
83.33	82.50	83.33	84.17	84.17	84.17	85.00	85.00	85.83
85.00								
2: SEQ206			98.33	100.00	89.92	88.24	87.50	88.33
86.67	87.50	89.17	89.17	87.50	87.50	89.17	90.00	88.33
87.50	88.33	87.50	86.67	87.50	88.33	88.33	88.33	87.50
86.67	87.39	88.98	89.66	88.33	84.17	87.18	88.03	86.21
83.19	84.87	84.75	84.87	86.44	86.67	85.47	88.24	85.00
88.14	87.18	86.32	85.00	91.53	87.29	89.57	84.17	89.08
82.50	81.67	82.50	83.33	83.33	83.33	84.17	84.17	85.00
84.17								
3: SEQ3			89.92	89.92	100.00	89.08	86.67	87.50
85.83	87.50	90.00	88.33	86.67	86.67	88.33	89.17	88.33
87.50	88.33	87.50	86.67	87.50	88.33	88.33	88.33	87.50
86.67	86.55	88.89	90.43	86.55	85.00	85.59	85.59	87.07
83.33	84.03	83.90	84.17	84.87	87.50	86.21	87.29	85.00
87.18	87.93	87.07	84.03	89.83	84.75	87.93	83.33	88.24
80.00	79.17	80.00	80.83	80.83	80.83	81.67	81.67	82.50
81.67								
4: SEQ4			89.08	88.24	89.08	100.00	89.08	89.92
88.24	89.08	88.24	89.08	87.39	87.39	89.08	89.92	88.24
87.39	88.24	87.39	86.55	87.39	88.24	88.24	88.24	87.39
86.55	87.39	88.89	89.57	88.24	84.03	86.32	88.03	87.07
84.03	84.03	85.59	84.87	86.44	88.24	87.93	88.14	87.39
88.03	89.66	88.79	84.03	90.60	87.18	89.57	87.39	87.39
83.19	82.35	83.19	84.03	84.03	84.03	84.87	84.87	84.87
84.87								
5: SEQ32			88.33	87.50	86.67	89.08	100.00	97.58
95.97	95.97	96.77	97.58	93.55	93.55	95.16	95.97	91.94
91.13	91.94	91.13	90.32	91.13	94.35	91.94	91.94	91.13
90.32	88.24	88.24	89.66	86.07	81.45	87.39	87.39	87.93
82.64	83.33	84.87	85.37	85.00	87.10	86.55	88.43	85.37
86.55	84.17	83.33	82.11	85.95	84.17	89.66	84.55	89.08
81.97	81.15	81.97	82.79	82.79	82.79	83.61	83.61	82.79
82.79								
6: SEQ35			89.17	88.33	87.50	89.92	97.58	100.00
95.97	95.97	96.77	97.58	94.35	94.35	95.97	95.97	91.94
91.13	91.94	91.13	90.32	91.13	93.55	91.13	91.13	90.32
89.52	88.24	87.39	89.66	86.89	81.45	86.55	87.39	87.93
82.64	83.33	84.87	85.37	85.00	86.29	86.55	87.60	85.37
87.39	85.00	84.17	82.93	86.78	84.17	89.66	84.55	89.92
81.97	81.15	81.97	82.79	82.79	82.79	83.61	83.61	82.79
82.79								
7: SEQ29			87.50	86.67	85.83	88.24	95.97	95.97
100.00	95.16	94.35	95.16	94.35	94.35	95.97	93.55	91.13
90.32	91.13	90.32	89.52	90.32	92.74	90.32	90.32	89.52
88.71	87.39	86.55	88.79	85.25	80.65	85.71	86.55	87.07
81.82	82.50	84.03	84.55	84.17	86.29	85.71	86.78	84.55
85.71	84.17	83.33	81.30	85.12	83.33	88.79	83.74	87.39

81.15	80.33	81.15	81.97	81.97	81.97	82.79	82.79	81.97
81.97								
8:	SEQ31		88.33	87.50	87.50	89.08	95.97	95.97
95.16	100.00	96.77	96.77	92.74	92.74	94.35	95.16	90.32
89.52	90.32	89.52	88.71	89.52	91.94	89.52	89.52	88.71
87.90	87.39	86.55	87.93	86.07	82.26	85.71	87.39	87.93
82.64	82.50	84.87	85.37	85.00	86.29	86.55	87.60	84.55
87.39	85.00	84.17	82.93	86.78	84.17	90.52	84.55	89.92
80.33	79.51	80.33	81.15	81.15	81.15	81.97	81.97	81.97
81.15								
9:	SEQ33		90.00	89.17	90.00	88.24	96.77	96.77
94.35	96.77	100.00	97.58	93.55	93.55	95.16	95.97	93.55
92.74	93.55	92.74	91.94	92.74	95.16	92.74	92.74	91.94
91.13	87.39	87.39	88.79	86.89	81.45	86.55	87.39	87.93
82.64	82.50	84.87	84.55	85.00	86.29	86.55	87.60	85.37
87.39	85.00	84.17	82.93	86.78	84.17	89.66	84.55	89.92
81.15	80.33	81.15	81.97	81.97	81.97	82.79	82.79	82.79
81.97								
10:	SEQ36		90.00	89.17	88.33	89.08	97.58	97.58
95.16	96.77	97.58	100.00	94.35	94.35	95.97	96.77	91.13
90.32	91.13	90.32	89.52	90.32	92.74	91.13	91.13	90.32
89.52	89.08	88.24	90.52	87.70	82.26	87.39	88.24	88.79
83.47	84.17	85.71	86.18	85.83	87.10	87.39	89.26	86.18
88.24	85.83	85.00	83.74	87.60	85.00	90.52	85.37	90.76
81.97	81.15	81.97	82.79	82.79	82.79	83.61	83.61	83.61
82.79								
11:	SEQ37		88.33	87.50	86.67	87.39	93.55	94.35
94.35	92.74	93.55	94.35	100.00	99.19	98.39	94.35	90.32
89.52	90.32	90.32	90.32	90.32	91.94	90.32	90.32	90.32
90.32	87.39	86.55	88.79	86.07	80.65	85.71	85.71	87.07
81.82	82.50	84.87	84.55	84.17	85.48	84.87	86.78	84.55
86.55	85.83	85.00	82.11	85.95	83.33	88.79	83.74	88.24
81.15	81.15	81.97	81.97	81.97	81.15	81.97	81.97	81.97
81.97								
12:	SEQ38		88.33	87.50	86.67	87.39	93.55	94.35
94.35	92.74	93.55	94.35	99.19	100.00	98.39	94.35	90.32
89.52	90.32	90.32	90.32	90.32	91.94	90.32	90.32	90.32
90.32	87.39	86.55	88.79	86.07	80.65	85.71	85.71	87.07
81.82	82.50	84.87	84.55	84.17	85.48	84.87	86.78	84.55
86.55	85.83	85.00	82.11	85.95	83.33	88.79	83.74	88.24
81.15	81.15	81.97	81.97	81.97	81.15	81.97	81.97	81.97
81.97								
13:	SEQ30		90.00	89.17	88.33	89.08	95.16	95.97
95.97	94.35	95.16	95.97	98.39	98.39	100.00	95.97	91.94
91.13	91.94	91.13	90.32	91.13	93.55	91.94	91.94	91.13
90.32	89.08	88.24	90.52	87.70	82.26	87.39	87.39	88.79
83.47	84.17	85.71	86.18	85.83	87.10	86.55	88.43	86.18
88.24	87.50	86.67	83.74	87.60	85.00	90.52	85.37	89.92
81.97	81.15	81.97	82.79	82.79	82.79	83.61	83.61	83.61
82.79								
14:	SEQ34		90.83	90.00	89.17	89.92	95.97	95.97
93.55	95.16	95.97	96.77	94.35	94.35	95.97	100.00	91.13
90.32	91.13	90.32	89.52	90.32	91.94	91.94	91.94	91.13
90.32	89.08	89.08	91.38	87.70	83.06	87.39	87.39	88.79
83.47	84.17	85.71	85.37	85.83	87.10	87.39	87.60	86.18
88.24	88.33	87.50	83.74	87.60	85.00	90.52	85.37	90.76

81.97	81.15	81.97	82.79	82.79	82.79	83.61	83.61	83.61
82.79								
15: SEQ273			89.17	88.33	88.33	88.24	91.94	91.94
91.13	90.32	93.55	91.13	90.32	90.32	91.94	91.13	100.00
99.20	100.00	99.20	98.40	99.20	96.77	93.55	93.60	92.80
92.00	86.55	86.55	87.93	85.25	81.45	85.71	85.71	87.07
83.47	82.50	84.87	85.37	85.00	84.68	84.87	85.95	84.55
87.39	83.33	82.50	81.30	85.12	83.33	88.79	83.74	89.08
81.30	80.49	81.30	82.11	82.11	82.11	82.93	82.79	81.97
81.97								
16: SEQ281			88.33	87.50	87.50	87.39	91.13	91.13
90.32	89.52	92.74	90.32	89.52	89.52	91.13	90.32	99.20
100.00	99.19	98.40	97.60	98.40	95.97	92.74	92.80	92.00
91.20	85.71	85.71	87.07	84.43	80.65	84.87	84.87	86.21
82.64	81.67	84.03	84.55	84.17	83.87	84.03	85.12	83.74
86.55	82.50	81.67	80.49	84.30	82.50	87.93	82.93	88.24
82.11	81.30	80.49	81.30	81.30	82.93	82.11	81.97	81.15
81.15								
17: SEQ236			89.17	88.33	88.33	88.24	91.94	91.94
91.13	90.32	93.55	91.13	90.32	90.32	91.94	91.13	100.00
99.19	100.00	99.19	98.39	99.19	96.77	93.55	93.55	92.74
91.94	86.55	86.55	87.93	85.25	81.45	85.71	85.71	87.07
83.47	82.50	84.87	85.37	85.00	84.68	84.87	85.95	84.55
87.39	83.33	82.50	81.30	85.12	83.33	88.79	83.74	89.08
81.15	80.33	81.15	81.97	81.97	81.97	82.79	82.79	81.97
81.97								
18: SEQ277			88.33	87.50	87.50	87.39	91.13	91.13
90.32	89.52	92.74	90.32	90.32	90.32	91.13	90.32	99.20
98.40	99.19	100.00	99.20	98.40	95.97	92.74	92.80	92.00
92.80	85.71	85.71	87.07	84.43	80.65	84.87	84.87	86.21
82.64	81.67	84.03	84.55	84.17	83.87	84.03	85.12	83.74
86.55	82.50	81.67	80.49	84.30	82.50	87.93	82.93	88.24
80.49	81.30	82.11	81.30	82.93	81.30	82.11	81.97	81.15
81.15								
19: SEQ279			87.50	86.67	86.67	86.55	90.32	90.32
89.52	88.71	91.94	89.52	90.32	90.32	90.32	89.52	98.40
97.60	98.39	99.20	100.00	99.20	95.16	91.94	92.00	92.80
93.60	84.87	84.87	86.21	83.61	79.84	84.03	84.03	85.34
81.82	80.83	84.87	83.74	83.33	83.06	83.19	84.30	82.93
85.71	81.67	80.83	79.67	83.47	81.67	87.07	82.11	87.39
81.30	82.11	82.93	82.11	82.11	80.49	81.30	81.15	80.33
81.97								
20: SEQ275			88.33	87.50	87.50	87.39	91.13	91.13
90.32	89.52	92.74	90.32	90.32	90.32	91.13	90.32	99.20
98.40	99.19	98.40	99.20	100.00	95.97	92.74	92.80	93.60
92.80	85.71	85.71	87.07	84.43	80.65	84.87	84.87	86.21
82.64	81.67	85.71	84.55	84.17	83.87	84.03	85.12	83.74
86.55	82.50	81.67	80.49	84.30	82.50	87.93	82.93	88.24
82.11	81.30	82.11	82.93	81.30	81.30	82.11	81.97	81.15
82.79								
21: SEQ214			89.17	88.33	88.33	88.24	94.35	93.55
92.74	91.94	95.16	92.74	91.94	91.94	93.55	91.94	96.77
95.97	96.77	95.97	95.16	95.97	100.00	95.97	95.97	95.16
94.35	86.55	87.39	87.93	85.25	81.45	86.55	85.71	87.07
82.64	81.67	84.03	83.74	84.17	85.48	84.87	87.60	84.55
86.55	84.17	83.33	81.30	85.12	83.33	88.79	83.74	88.24

81.15	80.33	81.15	81.97	81.97	81.97	82.79	82.79	81.97
81.97								
22: SEQ240			89.17	88.33	88.33	88.24	91.94	91.13
90.32	89.52	92.74	91.13	90.32	90.32	91.94	91.94	93.55
92.74	93.55	92.74	91.94	92.74	95.97	100.00	100.00	99.19
98.39	86.55	87.39	87.93	85.25	82.26	86.55	85.71	87.07
82.64	81.67	84.03	82.93	84.17	85.48	84.87	87.60	83.74
86.55	85.00	84.17	81.30	85.12	83.33	88.79	82.93	88.24
81.97	81.15	81.97	82.79	82.79	82.79	83.61	83.61	82.79
82.79								
23: SEQ283			89.17	88.33	88.33	88.24	91.94	91.13
90.32	89.52	92.74	91.13	90.32	90.32	91.94	91.94	93.60
92.80	93.55	92.80	92.00	92.80	95.97	100.00	100.00	99.20
98.40	86.55	87.39	87.93	85.25	82.26	86.55	85.71	87.07
82.64	81.67	84.03	82.93	84.17	85.48	84.87	87.60	83.74
86.55	85.00	84.17	81.30	85.12	83.33	88.79	82.93	88.24
82.11	81.30	82.11	82.93	82.93	82.93	83.74	83.61	82.79
82.79								
24: SEQ285			88.33	87.50	87.50	87.39	91.13	90.32
89.52	88.71	91.94	90.32	90.32	90.32	91.13	91.13	92.80
92.00	92.74	92.00	92.80	93.60	95.16	99.19	99.20	100.00
99.20	85.71	86.55	87.07	84.43	81.45	85.71	84.87	86.21
81.82	80.83	84.87	82.11	83.33	84.68	84.03	86.78	82.93
85.71	84.17	83.33	80.49	84.30	82.50	87.93	82.11	87.39
82.93	82.11	82.93	83.74	82.11	82.11	82.93	82.79	81.97
83.61								
25: SEQ287			87.50	86.67	86.67	86.55	90.32	89.52
88.71	87.90	91.13	89.52	90.32	90.32	90.32	90.32	92.00
91.20	91.94	92.80	93.60	92.80	94.35	98.39	98.40	99.20
100.00	84.87	85.71	86.21	83.61	80.65	84.87	84.03	85.34
80.99	80.00	84.03	81.30	82.50	83.87	83.19	85.95	82.11
84.87	83.33	82.50	79.67	83.47	81.67	87.07	81.30	86.55
82.11	82.93	83.74	82.93	82.93	81.30	82.11	81.97	81.15
82.79								
26: SEQ11			88.24	87.39	86.55	87.39	88.24	88.24
87.39	87.39	87.39	89.08	87.39	87.39	89.08	89.08	86.55
85.71	86.55	85.71	84.87	85.71	86.55	86.55	86.55	85.71
84.87	100.00	88.89	89.57	87.39	84.87	85.47	88.03	87.07
84.87	86.55	85.59	84.87	85.59	87.39	86.21	87.29	85.71
88.89	87.07	85.34	84.87	88.89	86.32	89.57	84.03	87.39
82.35	81.51	82.35	83.19	83.19	83.19	84.03	84.03	84.87
83.19								
27: SEQ2			89.83	88.98	88.89	88.89	88.24	87.39
86.55	86.55	87.39	88.24	86.55	86.55	88.24	89.08	86.55
85.71	86.55	85.71	84.87	85.71	87.39	87.39	87.39	86.55
85.71	88.89	100.00	93.10	87.39	86.55	91.30	91.30	89.47
85.47	86.32	85.47	85.59	87.93	88.24	85.59	87.39	86.55
85.71	86.44	85.59	85.71	88.89	87.18	92.92	86.55	89.74
83.90	83.05	83.90	84.75	84.75	84.75	85.59	85.59	86.44
84.75								
28: SEQ18			90.52	89.66	90.43	89.57	89.66	89.66
88.79	87.93	88.79	90.52	88.79	88.79	90.52	91.38	87.93
87.07	87.93	87.07	86.21	87.07	87.93	87.93	87.93	87.07
86.21	89.57	93.10	100.00	88.79	88.79	91.15	91.15	90.18
86.09	88.70	86.96	88.70	89.47	88.79	87.93	89.66	89.66
87.93	87.93	87.07	88.79	90.35	88.60	91.96	90.52	90.43

85.34	84.48	85.34	86.21	86.21	86.21	87.07	87.07	87.93
86.21								
29: SEQ6			89.17	88.33	86.55	88.24	86.07	86.89
85.25	86.07	86.89	87.70	86.07	86.07	87.70	87.70	85.25
84.43	85.25	84.43	83.61	84.43	85.25	85.25	85.25	84.43
83.61	87.39	87.39	88.79	100.00	82.79	88.03	87.18	88.79
84.03	83.19	84.75	84.30	87.29	86.07	85.71	87.60	86.89
88.24	86.55	85.71	84.43	89.08	85.71	93.04	85.12	88.24
84.17	83.33	84.17	85.00	85.00	85.00	85.83	85.83	86.67
85.00								
30: SEQ24			85.00	84.17	85.00	84.03	81.45	81.45
80.65	82.26	81.45	82.26	80.65	80.65	82.26	83.06	81.45
80.65	81.45	80.65	79.84	80.65	81.45	82.26	82.26	81.45
80.65	84.87	86.55	88.79	82.79	100.00	89.08	86.55	88.79
82.64	85.00	84.87	84.55	85.00	86.29	86.55	84.30	85.37
86.55	85.00	84.17	82.93	84.30	85.00	88.79	84.55	85.71
81.15	80.33	81.15	81.97	81.97	81.97	82.79	82.79	82.79
81.15								
31: SEQ27			88.03	87.18	85.59	86.32	87.39	86.55
85.71	85.71	86.55	87.39	85.71	85.71	87.39	87.39	85.71
84.87	85.71	84.87	84.03	84.87	86.55	86.55	86.55	85.71
84.87	85.47	91.30	91.15	88.03	89.08	100.00	87.39	87.93
84.87	86.44	88.03	85.71	84.87	86.55	89.47	89.66	87.29
88.70	88.70	87.83	87.29	84.87	85.59	87.93	88.24	86.32
84.87	84.03	84.87	85.71	85.71	85.71	86.55	86.55	87.39
84.87								
32: SEQ1			88.89	88.03	85.59	88.03	87.39	87.39
86.55	87.39	87.39	88.24	85.71	85.71	87.39	87.39	85.71
84.87	85.71	84.87	84.03	84.87	85.71	85.71	85.71	84.87
84.03	88.03	91.30	91.15	87.18	86.55	87.39	100.00	87.07
84.03	84.75	85.47	84.87	86.55	88.24	88.60	88.79	85.59
88.70	88.70	87.83	86.44	86.55	87.29	88.79	85.71	90.60
83.19	82.35	83.19	84.03	84.03	84.03	84.87	84.87	84.87
83.19								
33: SEQ7			87.07	86.21	87.07	87.07	87.93	87.93
87.07	87.93	87.93	88.79	87.07	87.07	88.79	88.79	87.07
86.21	87.07	86.21	85.34	86.21	87.07	87.07	87.07	86.21
85.34	87.07	89.47	90.18	88.79	88.79	87.93	87.07	100.00
88.79	86.21	90.43	88.79	89.66	89.66	92.92	88.70	88.79
90.35	91.15	90.27	87.93	88.79	89.66	90.43	87.93	87.93
84.48	83.62	84.48	85.34	85.34	85.34	86.21	86.21	87.07
85.34								
34: SEQ15			83.19	83.19	83.33	84.03	82.64	82.64
81.82	82.64	82.64	83.47	81.82	81.82	83.47	83.47	83.47
82.64	83.47	82.64	81.82	82.64	82.64	82.64	82.64	81.82
80.99	84.87	85.47	86.09	84.03	82.64	84.87	84.03	88.79
100.00	84.17	84.03	83.47	82.50	83.47	87.07	84.75	85.00
87.18	88.89	87.18	83.33	83.19	84.75	87.93	83.47	84.03
78.51	77.69	78.51	79.34	79.34	79.34	80.17	80.17	80.99
80.17								
35: SEQ9			84.87	84.87	84.03	84.03	83.33	83.33
82.50	82.50	82.50	84.17	82.50	82.50	84.17	84.17	82.50
81.67	82.50	81.67	80.83	81.67	81.67	81.67	81.67	80.83
80.00	86.55	86.32	88.70	83.19	85.00	86.44	84.75	86.21
84.17	100.00	86.55	85.83	84.87	83.33	87.93	85.59	84.87
86.32	85.47	84.62	83.33	85.59	85.47	86.96	83.33	85.71

80.00	79.17	80.00	80.83	80.83	80.83	81.67	81.67	82.50
80.83								
36: SEQ28			85.59	84.75	83.90	85.59	84.87	84.87
84.03	84.87	84.87	85.71	84.87	84.87	85.71	85.71	84.87
84.03	84.87	84.03	84.87	85.71	84.03	84.03	84.03	84.87
84.03	85.59	85.47	86.96	84.75	84.87	88.03	85.47	90.43
84.03	86.55	100.00	86.55	85.59	85.71	87.93	85.59	86.44
88.03	86.32	85.47	85.71	86.32	86.21	88.60	84.87	84.75
84.03	83.19	84.03	84.87	83.19	83.19	84.03	84.03	84.87
84.87								
37: SEQ19			85.71	84.87	84.17	84.87	85.37	85.37
84.55	85.37	84.55	86.18	84.55	84.55	86.18	85.37	85.37
84.55	85.37	84.55	83.74	84.55	83.74	82.93	82.93	82.11
81.30	84.87	85.59	88.70	84.30	84.55	85.71	84.87	88.79
83.47	85.83	86.55	100.00	90.00	82.93	86.44	86.67	84.43
86.44	85.71	84.87	85.25	85.00	85.71	89.66	85.25	86.55
80.99	80.17	80.99	81.82	81.82	81.82	82.64	82.64	83.47
81.82								
38: SEQ25			87.29	86.44	84.87	86.44	85.00	85.00
84.17	85.00	85.00	85.83	84.17	84.17	85.83	85.83	85.00
84.17	85.00	84.17	83.33	84.17	84.17	84.17	84.17	83.33
82.50	85.59	87.93	89.47	87.29	85.00	84.87	86.55	89.66
82.50	84.87	85.59	90.00	100.00	85.00	88.70	86.32	84.87
87.07	88.79	87.93	85.71	87.39	88.98	88.79	85.00	87.29
81.67	80.83	81.67	82.50	82.50	82.50	83.33	83.33	84.17
82.50								
39: SEQ5			87.50	86.67	87.50	88.24	87.10	86.29
86.29	86.29	86.29	87.10	85.48	85.48	87.10	87.10	84.68
83.87	84.68	83.87	83.06	83.87	85.48	85.48	85.48	84.68
83.87	87.39	88.24	88.79	86.07	86.29	86.55	88.24	89.66
83.47	83.33	85.71	82.93	85.00	100.00	89.92	89.26	85.37
87.39	86.67	85.83	83.74	88.43	86.67	92.24	84.55	89.92
80.33	79.51	80.33	81.15	81.15	81.15	81.97	81.97	82.79
81.15								
40: SEQ14			86.32	85.47	86.21	87.93	86.55	86.55
85.71	86.55	86.55	87.39	84.87	84.87	86.55	87.39	84.87
84.03	84.87	84.03	83.19	84.03	84.87	84.87	84.87	84.03
83.19	86.21	85.59	87.93	85.71	86.55	89.47	88.60	92.92
87.07	87.93	87.93	86.44	88.70	89.92	100.00	87.39	87.39
88.14	86.55	85.71	85.71	88.79	88.79	91.96	87.29	87.07
83.76	82.91	83.76	84.62	84.62	84.62	85.47	85.47	86.32
84.62								
41: SEQ16			89.08	88.24	87.29	88.14	88.43	87.60
86.78	87.60	87.60	89.26	86.78	86.78	88.43	87.60	85.95
85.12	85.95	85.12	84.30	85.12	87.60	87.60	87.60	86.78
85.95	87.29	87.39	89.66	87.60	84.30	89.66	88.79	88.70
84.75	85.59	85.59	86.67	86.32	89.26	87.39	100.00	86.78
87.39	86.55	85.71	85.95	88.98	85.59	91.23	85.83	88.98
84.03	83.19	84.03	84.87	84.87	84.87	85.71	85.71	86.55
85.71								
42: SEQ23			85.83	85.00	85.00	87.39	85.37	85.37
84.55	84.55	85.37	86.18	84.55	84.55	86.18	86.18	84.55
83.74	84.55	83.74	82.93	83.74	84.55	83.74	83.74	82.93
82.11	85.71	86.55	89.66	86.89	85.37	87.29	85.59	88.79
85.00	84.87	86.44	84.43	84.87	85.37	87.39	86.78	100.00
89.08	86.55	85.71	83.61	85.00	85.00	88.79	86.07	86.55

82.64	81.82	82.64	83.47	83.47	83.47	84.30	84.30	85.12
84.30								
43: SEQ26			88.98	88.14	87.18	88.03	86.55	87.39
85.71	87.39	87.39	88.24	86.55	86.55	88.24	88.24	87.39
86.55	87.39	86.55	85.71	86.55	86.55	86.55	86.55	85.71
84.87	88.89	85.71	87.93	88.24	86.55	88.70	88.70	90.35
87.18	86.32	88.03	86.44	87.07	87.39	88.14	87.39	89.08
100.00	88.98	87.29	88.24	88.03	86.32	91.15	85.71	88.89
84.75	83.90	84.75	85.59	85.59	85.59	86.44	86.44	87.29
85.59								
44: SEQ13			88.03	87.18	87.93	89.66	84.17	85.00
84.17	85.00	85.00	85.83	85.83	85.83	87.50	88.33	83.33
82.50	83.33	82.50	81.67	82.50	84.17	85.00	85.00	84.17
83.33	87.07	86.44	87.93	86.55	85.00	88.70	88.70	91.15
88.89	85.47	86.32	85.71	88.79	86.67	86.55	86.55	86.55
88.98	100.00	98.33	87.50	87.18	87.93	91.07	85.71	88.79
83.90	83.05	83.90	84.75	84.75	84.75	85.59	85.59	86.44
84.75								
45: SEQ204			87.18	86.32	87.07	88.79	83.33	84.17
83.33	84.17	84.17	85.00	85.00	85.00	86.67	87.50	82.50
81.67	82.50	81.67	80.83	81.67	83.33	84.17	84.17	83.33
82.50	85.34	85.59	87.07	85.71	84.17	87.83	87.83	90.27
87.18	84.62	85.47	84.87	87.93	85.83	85.71	85.71	85.71
87.29	98.33	100.00	86.67	86.32	87.07	90.18	84.87	87.93
83.05	82.20	83.05	83.90	83.90	83.90	84.75	84.75	86.44
84.75								
46: SEQ20			85.83	85.00	84.03	84.03	82.11	82.93
81.30	82.93	82.93	83.74	82.11	82.11	83.74	83.74	81.30
80.49	81.30	80.49	79.67	80.49	81.30	81.30	81.30	80.49
79.67	84.87	85.71	88.79	84.43	82.93	87.29	86.44	87.93
83.33	83.33	85.71	85.25	85.71	83.74	85.71	85.95	83.61
88.24	87.50	86.67	100.00	85.00	85.71	88.70	86.89	86.55
80.99	80.17	80.99	81.82	81.82	81.82	82.64	82.64	83.47
81.82								
47: SEQ12			92.37	91.53	89.83	90.60	85.95	86.78
85.12	86.78	86.78	87.60	85.95	85.95	87.60	87.60	85.12
84.30	85.12	84.30	83.47	84.30	85.12	85.12	85.12	84.30
83.47	88.89	88.89	90.35	89.08	84.30	84.87	86.55	88.79
83.19	85.59	86.32	85.00	87.39	88.43	88.79	88.98	85.00
88.03	87.18	86.32	85.00	100.00	90.00	93.10	85.12	91.45
83.33	82.50	83.33	84.17	84.17	84.17	85.00	85.00	85.83
85.00								
48: SEQ22			88.14	87.29	84.75	87.18	84.17	84.17
83.33	84.17	84.17	85.00	83.33	83.33	85.00	85.00	83.33
82.50	83.33	82.50	81.67	82.50	83.33	83.33	83.33	82.50
81.67	86.32	87.18	88.60	85.71	85.00	85.59	87.29	89.66
84.75	85.47	86.21	85.71	88.98	86.67	88.79	85.59	85.00
86.32	87.93	87.07	85.71	90.00	100.00	91.38	87.50	88.89
84.03	83.19	84.03	84.87	84.87	84.87	85.71	85.71	86.55
84.03								
49: SEQ17			90.43	89.57	87.93	89.57	89.66	89.66
88.79	90.52	89.66	90.52	88.79	88.79	90.52	90.52	88.79
87.93	88.79	87.93	87.07	87.93	88.79	88.79	88.79	87.93
87.07	89.57	92.92	91.96	93.04	88.79	87.93	88.79	90.43
87.93	86.96	88.60	89.66	88.79	92.24	91.96	91.23	88.79
91.15	91.07	90.18	88.70	93.10	91.38	100.00	89.66	91.30

84.48	83.62	84.48	85.34	85.34	85.34	86.21	86.21	87.07
85.34								
50:	SEQ21		85.00	84.17	83.33	87.39	84.55	84.55
83.74	84.55	84.55	85.37	83.74	83.74	85.37	85.37	83.74
82.93	83.74	82.93	82.11	82.93	83.74	82.93	82.93	82.11
81.30	84.03	86.55	90.52	85.12	84.55	88.24	85.71	87.93
83.47	83.33	84.87	85.25	85.00	84.55	87.29	85.83	86.07
85.71	85.71	84.87	86.89	85.12	87.50	89.66	100.00	85.71
80.33	79.51	80.33	81.15	81.15	81.15	81.97	81.97	83.61
81.15								
51:	SEQ8		89.92	89.08	88.24	87.39	89.08	89.92
87.39	89.92	89.92	90.76	88.24	88.24	89.92	90.76	89.08
88.24	89.08	88.24	87.39	88.24	88.24	88.24	88.24	87.39
86.55	87.39	89.74	90.43	88.24	85.71	86.32	90.60	87.93
84.03	85.71	84.75	86.55	87.29	89.92	87.07	88.98	86.55
88.89	88.79	87.93	86.55	91.45	88.89	91.30	85.71	100.00
83.19	82.35	83.19	84.03	84.03	84.03	84.87	84.87	85.71
84.03								
52:	SEQ289		83.33	82.50	80.00	83.19	81.97	81.97
81.15	80.33	81.15	81.97	81.15	81.15	81.97	81.97	81.30
82.11	81.15	80.49	81.30	82.11	81.15	81.97	82.11	82.93
82.11	82.35	83.90	85.34	84.17	81.15	84.87	83.19	84.48
78.51	80.00	84.03	80.99	81.67	80.33	83.76	84.03	82.64
84.75	83.90	83.05	80.99	83.33	84.03	84.48	80.33	83.19
100.00	99.19	98.37	99.19	97.56	99.19	98.37	98.36	94.26
94.26								
53:	SEQ291		82.50	81.67	79.17	82.35	81.15	81.15
80.33	79.51	80.33	81.15	81.15	81.15	81.15	81.15	80.49
81.30	80.33	81.30	82.11	81.30	80.33	81.15	81.30	82.11
82.93	81.51	83.05	84.48	83.33	80.33	84.03	82.35	83.62
77.69	79.17	83.19	80.17	80.83	79.51	82.91	83.19	81.82
83.90	83.05	82.20	80.17	82.50	83.19	83.62	79.51	82.35
99.19	100.00	99.19	98.37	98.37	98.37	97.56	97.54	93.44
93.44								
54:	SEQ271		83.33	82.50	80.00	83.19	81.97	81.97
81.15	80.33	81.15	81.97	81.97	81.97	81.97	81.97	81.30
80.49	81.15	82.11	82.93	82.11	81.15	81.97	82.11	82.93
83.74	82.35	83.90	85.34	84.17	81.15	84.87	83.19	84.48
78.51	80.00	84.03	80.99	81.67	80.33	83.76	84.03	82.64
84.75	83.90	83.05	80.99	83.33	84.03	84.48	80.33	83.19
98.37	99.19	100.00	99.19	99.19	97.56	98.37	98.36	94.26
94.26								
55:	SEQ267		84.17	83.33	80.83	84.03	82.79	82.79
81.97	81.15	81.97	82.79	81.97	81.97	82.79	82.79	82.11
81.30	81.97	81.30	82.11	82.93	81.97	82.79	82.93	83.74
82.93	83.19	84.75	86.21	85.00	81.97	85.71	84.03	85.34
79.34	80.83	84.87	81.82	82.50	81.15	84.62	84.87	83.47
85.59	84.75	83.90	81.82	84.17	84.87	85.34	81.15	84.03
99.19	98.37	99.19	100.00	98.37	98.37	99.19	99.18	95.08
95.08								
56:	SEQ269		84.17	83.33	80.83	84.03	82.79	82.79
81.97	81.15	81.97	82.79	81.97	81.97	82.79	82.79	82.11
81.30	81.97	82.93	82.11	81.30	81.97	82.79	82.93	82.11
82.93	83.19	84.75	86.21	85.00	81.97	85.71	84.03	85.34
79.34	80.83	83.19	81.82	82.50	81.15	84.62	84.87	83.47
85.59	84.75	83.90	81.82	84.17	84.87	85.34	81.15	84.03

97.56	98.37	99.19	98.37	100.00	98.37	99.19	99.18	95.08
93.44								
57: SEQ265			84.17	83.33	80.83	84.03	82.79	82.79
81.97	81.15	81.97	82.79	81.15	81.15	82.79	82.79	82.11
82.93	81.97	81.30	80.49	81.30	81.97	82.79	82.93	82.11
81.30	83.19	84.75	86.21	85.00	81.97	85.71	84.03	85.34
79.34	80.83	83.19	81.82	82.50	81.15	84.62	84.87	83.47
85.59	84.75	83.90	81.82	84.17	84.87	85.34	81.15	84.03
99.19	98.37	97.56	98.37	98.37	100.00	99.19	99.18	95.08
93.44								
58: SEQ263			85.00	84.17	81.67	84.87	83.61	83.61
82.79	81.97	82.79	83.61	81.97	81.97	83.61	83.61	82.93
82.11	82.79	82.11	81.30	82.11	82.79	83.61	83.74	82.93
82.11	84.03	85.59	87.07	85.83	82.79	86.55	84.87	86.21
80.17	81.67	84.03	82.64	83.33	81.97	85.47	85.71	84.30
86.44	85.59	84.75	82.64	85.00	85.71	86.21	81.97	84.87
98.37	97.56	98.37	99.19	99.19	99.19	100.00	100.00	95.90
94.26								
59: SEQ234			85.00	84.17	81.67	84.87	83.61	83.61
82.79	81.97	82.79	83.61	81.97	81.97	83.61	83.61	82.79
81.97	82.79	81.97	81.15	81.97	82.79	83.61	83.61	82.79
81.97	84.03	85.59	87.07	85.83	82.79	86.55	84.87	86.21
80.17	81.67	84.03	82.64	83.33	81.97	85.47	85.71	84.30
86.44	85.59	84.75	82.64	85.00	85.71	86.21	81.97	84.87
98.36	97.54	98.36	99.18	99.18	99.18	100.00	100.00	95.90
94.26								
60: SEQ208			85.83	85.00	82.50	84.87	82.79	82.79
81.97	81.97	82.79	83.61	81.97	81.97	83.61	83.61	81.97
81.15	81.97	81.15	80.33	81.15	81.97	82.79	82.79	81.97
81.15	84.87	86.44	87.93	86.67	82.79	87.39	84.87	87.07
80.99	82.50	84.87	83.47	84.17	82.79	86.32	86.55	85.12
87.29	86.44	86.44	83.47	85.83	86.55	87.07	83.61	85.71
94.26	93.44	94.26	95.08	95.08	95.08	95.90	95.90	100.00
95.08								
61: SEQ238			85.00	84.17	81.67	84.87	82.79	82.79
81.97	81.15	81.97	82.79	81.97	81.97	82.79	82.79	81.97
81.15	81.97	81.15	81.97	82.79	81.97	82.79	82.79	83.61
82.79	83.19	84.75	86.21	85.00	81.15	84.87	83.19	85.34
80.17	80.83	84.87	81.82	82.50	81.15	84.62	85.71	84.30
85.59	84.75	84.75	81.82	85.00	84.03	85.34	81.15	84.03
94.26	93.44	94.26	95.08	93.44	93.44	94.26	94.26	95.08
100.00								