

CORRECTION

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Correction: OBSCN undergoes extensive alternative splicing during human cardiac and skeletal muscle development

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Following publication of the original article [1], the author noticed that Table 2, especially in the online version, is not readable and has been included as figure. Therefore, the author has requested to update the table,

from figure format into table format. The original article has been corrected.

Table 2 in figure format:

[†]Marco Savarese and Bjarne Udd contributed equally to this work.

The original article can be found online at <https://doi.org/10.1186/s13395-025-00374-6>.

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[illegible]

Table 2 in table format:

Exon number	Meta transcript exon number	Chr	Begin	End	Strand	ENST00000284548	ENST00000422127	ENST00000493977	ENST00000570156
1	1	chr1	228,208,044	228,208,185	+				1
2	1a	chr1	228,208,063	228,208,185	+	1			
3	1b	chr1	228,208,130	228,208,185	+		1		
4	2	chr1	228,211,766	228,212,771	+	2	2		2
5	3	chr1	228,213,441	228,213,710	+	3	3		3
6	4	chr1	228,214,174	228,214,434	+	4	4		4
7	5	chr1	228,214,790	228,215,098	+	5	5		5
8	6	chr1	228,215,563	228,215,829	+	6	6		6
9	6a	chr1	228,215,689	228,215,829	+			1	
10	7	chr1	228,216,421	228,216,702	+	7	7	2	7
11	8	chr1	228,217,013	228,217,288	+	8	8	3	8
12	9	chr1	228,217,395	228,218,222	+			4	
13	10	chr1	228,219,324	228,219,599	+				9
14	11	chr1	228,224,459	228,224,734	+	9	9		10
15	12	chr1	228,243,183	228,243,458	+	10	10		11
16	13	chr1	228,244,296	228,244,571	+	11	11		12
17	14	chr1	228,245,413	228,245,688	+	12	12		13
18	15	chr1	228,246,528	228,246,803	+	13	13		14
19	16	chr1	228,249,965	228,250,240	+	14	14		15
20	17	chr1	228,256,651	228,256,926	+	15	15		16
21	18	chr1	228,259,501	228,259,776	+				17
22	19	chr1	228,264,116	228,264,391	+	16	16		18
23	20	chr1	228,268,530	228,268,805	+	17	17		19
24	21	chr1	228,271,925	228,272,221	+				20
25	22	chr1	228,273,272	228,273,547	+				21
26	23	chr1	228,273,770	228,274,048	+	18	18		22
27	24	chr1	228,274,178	228,274,444	+	19	19		23
28	25	chr1	228,274,572	228,274,841	+	20	20		24
29	26	chr1	228,275,760	228,276,026	+	21	21		25
30	27	chr1	228,276,450	228,276,716	+	22	22		26
31	28	chr1	228,276,930	228,277,042	+	23	23		27
32	29	chr1	228,277,160	228,277,313	+	24	24		28
33	30	chr1	228,277,505	228,277,666	+				29
34	31	chr1	228,277,754	228,277,858	+	25	25		30
35	32	chr1	228,278,689	228,278,955	+	26	26		31
36	33	chr1	228,279,175	228,279,444	+	27	27		32
37	34	chr1	228,279,821	228,280,087	+	28	28		33
38	35	chr1	228,280,179	228,280,445	+	29	29		34
39	36	chr1	228,280,530	228,280,796	+	30	30		35
40	37	chr1	228,281,933	228,282,205	+	31	31		36
41	38	chr1	228,283,018	228,283,284	+	32	32		37
42	39	chr1	228,283,503	228,283,769	+	33	33		38
43	40	chr1	228,286,078	228,286,350	+	34	34		39
44	41	chr1	228,286,773	228,287,039	+	35	35		40
45	42	chr1	228,287,694	228,287,960	+	36	36		41
46	43	chr1	228,288,061	228,288,324	+	37	37		42
47	44	chr1	228,288,625	228,288,888	+	38	38		43
48	45	chr1	228,291,898	228,292,161	+	39	39		44
49	46	chr1	228,292,523	228,292,786	+	40	40		45
50	47	chr1	228,293,353	228,293,616	+	41	41		46
51	48	chr1	228,294,152	228,294,415	+	42	42		47
52	49	chr1	228,294,780	228,295,043	+	43	43		48

Exon number	Meta transcript exon number	Chr	Begin	End	Strand	ENST00000284548	ENST00000422127	ENST00000493977	ENST00000570156
53	50	chr1	228,298,454	228,298,717	+				49
54	51	chr1	228,299,259	228,299,522	+				50
55	52	chr1	228,299,882	228,300,145	+				51
56	53	chr1	228,303,675	228,303,938	+				52
57	54	chr1	228,304,303	228,304,566	+				53
58	55	chr1	228,305,123	228,305,386	+				54
59	56	chr1	228,306,372	228,306,638	+	44	44		55
60	57	chr1	228,306,901	228,307,167	+	45	45		56
61	58	chr1	228,307,259	228,307,531	+	46	46		57
62	59	chr1	228,308,111	228,308,383	+	47	47		58
63	60	chr1	228,309,099	228,309,295	+	48	48		59
64	61	chr1	228,309,484	228,309,559	+	49	49		60
65	62	chr1	228,313,614	228,313,886	+				
66	63	chr1	228,314,814	228,315,080	+				
67	64	chr1	228,315,847	228,316,119	+	50	50		61
68	65	chr1	228,316,709	228,316,984	+	51	51		62
69	66	chr1	228,317,464	228,317,751	+	52	52		63
70	67	chr1	228,317,892	228,318,173	+	53	53		64
71	68	chr1	228,318,884	228,319,254	+	54	54		65
72	69	chr1	228,321,344	228,322,214	+	55	55		66
73	70	chr1	228,323,328	228,323,606	+	56	56		67
74	71	chr1	228,332,860	228,332,938	+	57	57		68
75	72	chr1	228,333,199	228,333,323	+	58	58		69
76	73	chr1	228,333,583	228,333,780	+	59	59		70
77	74	chr1	228,334,512	228,334,544	+	60	60		71
78	75	chr1	228,334,815	228,334,913	+	61	61		72
79	76	chr1	228,335,080	228,335,298	+	62	62		73
80	77	chr1	228,335,791	228,335,851	+	63	63		74
81	78	chr1	228,336,200	228,336,270	+	64	64		75
82	79	chr1	228,337,004	228,337,126	+	65	65		76
83	80	chr1	228,337,244	228,337,383	+	66	66		77
84	81	chr1	228,337,944	228,338,144	+	67	67		78
85	82	chr1	228,338,290	228,338,372	+	68	68		79
86	83	chr1	228,338,853	228,339,026	+	69	69		80
87	84	chr1	228,339,945	228,340,101	+	70	70		81
88	85	chr1	228,340,506	228,340,622	+	71	71		82
89	86	chr1	228,340,724	228,340,888	+	72	72		83
90	87	chr1	228,341,095	228,341,253	+	73	73		84
91	88	chr1	228,341,437	228,341,614	+	74	74		85
92	89	chr1	228,342,119	228,342,232	+	75	75		86
93	90	chr1	228,349,890	228,350,057	+	76	76		87
94	91	chr1	228,350,841	228,350,943	+	77	77		88
95	92	chr1	228,351,321	228,351,450	+	78	78		89
96	93	chr1	228,352,951	228,353,062	+	79	79		90
97	94	chr1	228,356,151	228,356,193	+	80			
98	95	chr1	228,359,597	228,361,250	+	81			
99	96	chr1	228,362,576	228,362,755	+		80		91
100	97	chr1	228,364,981	228,365,077	+		81		92
101	98	chr1	228,365,436	228,365,560	+		82		93
102	99	chr1	228,366,074	228,366,186	+		83		94
103	100	chr1	228,366,400	228,366,568	+		84		95
104	101	chr1	228,366,808	228,366,889	+		85		96
105	102	chr1	228,366,975	228,367,175	+		86		97
106	103	chr1	228,367,886	228,367,946	+		87		98

Exon number	Meta transcript exon number	Chr	Begin	End	Strand	ENST00000284548	ENST00000422127	ENST00000493977	ENST00000570156	
107	104	chr1	228,368,339	228,368,416	+		88		99	
108	105	chr1	228,368,722	228,368,894	+		89		100	
109	106	chr1	228,369,136	228,369,162	+		90		101	
110	107	chr1	228,369,942	228,370,094	+		91		102	
111	108	chr1	228,370,193	228,370,238	+		92		103	
112	109	chr1	228,370,679	228,370,756	+		93		104	
113	110	chr1	228,371,023	228,373,081	+		94		105	
114	111	chr1	228,373,932	228,374,012	+		95		106	
115	112	chr1	228,374,314	228,374,424	+		96		107	
116	113	chr1	228,374,585	228,374,752	+		97		108	
117	114	chr1	228,375,702	228,375,824	+		98		109	
118	115	chr1	228,376,008	228,376,178	+		99		110	
119	116	chr1	228,376,793	228,376,874	+		100		111	
120	117	chr1	228,377,052	228,377,291	+		101		112	
121	118	chr1	228,377,489	228,377,712	+		102		113	
122	119	chr1	228,377,931	228,378,006	+		103			
123	119a	chr1	228,377,937	228,378,006	+				114	
124	120	chr1	228,378,271	228,378,420	+		104		115	
125	121a	chr1	228,378,618	228,378,874	+		105			
126	121	chr1	228,378,618	228,378,876	+				116	
Exon number	ENST00000660857		ENST00000680850		First exon	Last exon	Alternative splicing	Start Phase	End Phase	Domain
1			1		TRUE	FALSE		-	-	-
2					TRUE	FALSE		-	-	-
3					TRUE	FALSE		-	-	-
4			2		FALSE	FALSE		-	1	Ig #1, Ig #2, Ig#3
5			3		FALSE	FALSE		1	1	Ig #4
6			4		FALSE	FALSE		1	1	Ig #5
7			5		FALSE	FALSE		1	1	Fn3 #1
8			6		FALSE	FALSE		1	1	Ig #6
9					FALSE	FALSE		1	1	Ig #6
10			7		FALSE	FALSE		1	1	Ig #7
11			8		FALSE	FALSE		1	1	Ig #8
12					FALSE	TRUE	AL = chr1:228,359,597–228,361,250: +, AL = chr1:228,378,618–228,378,874: +, AL = chr1:228,378,618–228,378,876: +	1	-	-
13			9		FALSE	FALSE		1	1	Ig #9
14			10		FALSE	FALSE		1	1	Ig #10
15			11		FALSE	FALSE		1	1	Ig #11
16			12		FALSE	FALSE		1	1	Ig #12
17			13		FALSE	FALSE		1	1	Ig #13
18			14		FALSE	FALSE		1	1	Ig #14
19			15		FALSE	FALSE		1	1	Ig #15
20			16		FALSE	FALSE		1	1	Ig #16
21			17		FALSE	FALSE		1	1	Ig #17
22			18		FALSE	FALSE		1	1	Ig #18
23			19		FALSE	FALSE		1	1	Ig #19
24			20		FALSE	FALSE		1	1	Ig #20
25			21		FALSE	FALSE		1	1	Ig #21
26			22		FALSE	FALSE		1	1	Fn3 #2

Exon number	ENST00000660857	ENST00000680850	First exon	Last exon	Alternative splicing	Start Phase	End Phase	Domain
27		23	FALSE	FALSE		1	1	Ig #22
28		24	FALSE	FALSE		1	1	Ig #23
29		25	FALSE	FALSE		1	1	Ig #24
30		26	FALSE	FALSE		1	1	Ig #25
31		27	FALSE	FALSE		1	0	½ Ig #26
32		28	FALSE	FALSE		0	1	½ Ig #26
33		29	FALSE	FALSE		1	1	½ Ig #27
34		30	FALSE	FALSE		1	1	½ Ig #27
35		31	FALSE	FALSE		1	1	Ig #28
36		32	FALSE	FALSE		1	1	Ig #28 few AAs
37		33	FALSE	FALSE		1	1	Ig #29
38		34	FALSE	FALSE		1	1	Ig #30
39		35	FALSE	FALSE		1	1	Ig #31
40		36	FALSE	FALSE		1	1	Ig #32
41		37	FALSE	FALSE		1	1	Ig #33
42		38	FALSE	FALSE		1	1	Ig #34
43		39	FALSE	FALSE		1	1	Ig #35
44		40	FALSE	FALSE		1	1	Ig #36
45		41	FALSE	FALSE		1	1	Ig #37
46		42	FALSE	FALSE		1	1	Ig #38
47		43	FALSE	FALSE		1	1	Ig #39
48		44	FALSE	FALSE		1	1	Ig #40
49		45	FALSE	FALSE		1	1	Ig #41
50		46	FALSE	FALSE		1	1	Ig #42
51		47	FALSE	FALSE		1	1	Ig #43
52		48	FALSE	FALSE		1	1	Ig #44
53		49	FALSE	FALSE		1	1	Ig #45
54		50	FALSE	FALSE		1	1	Ig #46
55		51	FALSE	FALSE		1	1	Ig #47
56		52	FALSE	FALSE		1	1	Ig #48
57		53	FALSE	FALSE		1	1	Ig #49
58		54	FALSE	FALSE		1	1	Ig #50
59		55	FALSE	FALSE		1	1	Ig #51
60		56	FALSE	FALSE		1	1	Ig #52
61		57	FALSE	FALSE		1	1	Ig #53
62		58	FALSE	FALSE		1	1	Ig #54
63		59	FALSE	FALSE		1	0	½ Ig #55
64	1	60	FALSE	FALSE		0	1	½ Ig #55
65	2		FALSE	FALSE		1	1	Ig #56
66	3		FALSE	FALSE		1	1	Ig #57
67	4	61	FALSE	FALSE		1	1	Ig #58
68		62	FALSE	FALSE		1	1	Ig #59
69		63	FALSE	FALSE		1	1	Fn3
70		64	FALSE	FALSE		1	1	Ig #60
71		65	FALSE	FALSE		1	0	-
72		66	FALSE	FALSE		0	1	IQ, Ig #61
73		67	FALSE	FALSE		1	1	Ig #62
74		68	FALSE	FALSE		1	2	-
75		69	FALSE	FALSE		2	1	½ Ig #63
76		70	FALSE	FALSE		1	1	½ Ig #63

Exon number	ENST00000660857	ENST00000680850	First exon	Last exon	Alternative splicing	Start Phase	End Phase	Domain
77		71	FALSE	FALSE		1	1	-
78		72	FALSE	FALSE		1	1	½ Ig #64
79		73	FALSE	FALSE		1	1	½ Ig #64
80		74	FALSE	FALSE		1	2	-
81		75	FALSE	FALSE		2	1	-
82		76	FALSE	FALSE		1	1	-
83		77	FALSE	FALSE		1	0	-
84		78	FALSE	FALSE		0	0	SH3
85		79	FALSE	FALSE		0	2	-
86		80	FALSE	FALSE		2	2	DH
87		81	FALSE	FALSE		2	0	DH
88		82	FALSE	FALSE		0	0	DH
89		83	FALSE	FALSE		0	0	DH
90		84	FALSE	FALSE		0	0	PH
91		85	FALSE	FALSE		0	1	PH
92		86	FALSE	FALSE		1	1	½ Ig #65
93		87	FALSE	FALSE		1	1	½ Ig #65
94		88	FALSE	FALSE		1	2	1/3 Ig #66
95		89	FALSE	FALSE		2	0	1/3 Ig #66
96		90	FALSE	FALSE		0	1	1/3 Ig #66
97			FALSE	FALSE		1	2	-
98			FALSE	TRUE	AL = chr1:228,217,395–228,218,222: +, AL = chr1:228,378,618–228,378,874: +, AL = chr1:228,378,618–228,378,876: +	2	-	-
99		91	FALSE	FALSE		1	1	-
100		92	FALSE	FALSE		1	2	-
101		93	FALSE	FALSE		2	1	-
102		94	FALSE	FALSE		1	0	½ Ig #67
103		95	FALSE	FALSE		0	1	½ Ig #67
104		96	FALSE	FALSE		1	2	Kinase #1
105		97	FALSE	FALSE		2	2	Kinase #1
106		98	FALSE	FALSE		2	0	Kinase #1
107		99	FALSE	FALSE		0	0	Kinase #1
108		100	FALSE	FALSE		0	2	Kinase #1
109		101	FALSE	FALSE		2	2	Kinase #1
110		102	FALSE	FALSE		2	2	Kinase #1
111		103	FALSE	FALSE		2	0	Kinase #1
112		104	FALSE	FALSE		0	0	-
113		105	FALSE	FALSE		0	1	-
114		106	FALSE	FALSE		1	1	-
115		107	FALSE	FALSE		1	1	½ Ig #68
116		108	FALSE	FALSE		1	1	½ Ig #68
117		109	FALSE	FALSE		1	1	-
118		110	FALSE	FALSE		1	1	-
119		111	FALSE	FALSE		1	2	Kinase #2
120		112	FALSE	FALSE		2	2	Kinase #2
121		113	FALSE	FALSE		2	1	Kinase #2
122		114	FALSE	FALSE	A5' = chr1:228,377,937–228,378,006: +	1	2	Kinase #2

Exon number	ENST0000060857	ENST0000060850	First exon	Last exon	Alternative splicing	Start Phase	End Phase	Domain
123			FALSE	FALSE	A5' = chr1:228,377,931–228,378,006: +	1	2	Kinase #2
124		115	FALSE	FALSE		2	2	Kinase #2
125			FALSE	TRUE	AL = chr1:228,217,395–228,218,222: +, AL = chr1:228,359,597–228,361,250: +, AL = chr1:228,378,618–228,378,876: +	2	-	Kinase #2
126		116	FALSE	TRUE	AL = chr1:228,217,395–228,218,222: +, AL = chr1:228,359,597–228,361,250: +, AL = chr1:228,378,618–228,378,874: +	2	-	Kinase #2

Each row of the table represents a unique OBSCN exon. The unique exon IDs based on the non-overlapping exons are listed below the “Meta-transcript exon number”. The six studied transcripts include ENST00000284548, ENST00000422127, ENST00000570156, ENST0000060850, ENST0000060857 and ENST00000493977. Below the columns labelled with the Ensembl IDs, for those exons included in the isoform, the number of the exons are stated. In the columns labelled with “First exon” and “Last exon”, the cells corresponding to the first and last exon of the isoform are marked with TRUE. The final column (i.e. on the right) includes the detailed information about the alternative splicing events and the alternative first or last exons.

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