

	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	
conservation	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	
ODAM'IP	A	C	A	T	T	C	T	C	A	G	T	G	A	G	C	T	80
ODAM'LV	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	56
ODAM'PP	A	T	C	T	T	T	T	T	C	A	T	T	T	C	A	G	95
ODAM-CI	G	T	C	T	T	T	T	T	C	A	T	T	T	C	A	G	95
ODAM-DR	A	C	T	T	T	T	T	T	C	A	T	T	T	C	A	G	95
ODAM-PN	A	C	C	G	T	T	C	A	T	T	T	T	C	A	G	95	
ODAM-C1'CC	A	T	C	T	T	T	T	T	C	A	T	T	T	C	A	G	95
ODAM-C2'CC	A	T	C	T	T	T	T	T	C	A	T	T	T	C	A	G	95
ODAM-C1'SA	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	38	
ODAM-C2'SA	A	T	C	T	T	T	T	T	C	A	T	T	T	C	A	G	95
ODAM'SR	A	T	C	T	T	T	T	T	C	A	T	T	T	C	A	G	95
ODAM-C1'SG	G	T	C	T	T	T	T	T	C	A	T	T	T	C	A	G	95
ODAM-C2'SG	A	T	C	T	T	T	T	T	C	A	T	T	T	C	A	G	95

	85	90	95	100	105	110	115	120	125	130	135	140	145	150	155	160	
conservation	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	
ODAM'IP	C	A	G	C	A	A	T	G	A	T	T	G	T	G	C	C	160
ODAM'LV	C	A	G	T	A	A	C	G	A	G	G	T	T	T	T	T	136
ODAM'PP	C	A	G	T	A	A	C	G	A	G	G	T	T	T	T	T	175
ODAM-CI	C	A	G	T	A	A	C	G	A	G	G	T	T	T	T	T	175
ODAM-DR	C	A	G	T	A	A	C	G	A	G	G	T	T	T	T	T	175
ODAM-PN	C	A	G	T	A	A	C	G	A	G	G	T	T	T	T	T	175
ODAM-C1'CC	C	A	G	T	A	A	C	G	A	G	G	T	T	T	T	T	175
ODAM-C2'CC	C	A	G	T	A	A	C	G	A	G	G	T	T	T	T	T	175
ODAM-C1'SA	C	T	C	A	G	C	T	A	A	G	G	T	T	T	T	T	118
ODAM-C2'SA	C	A	G	T	A	A	C	G	A	G	G	T	T	T	T	T	175
ODAM'SR	C	A	G	T	A	A	C	G	A	G	G	T	T	T	T	T	175
ODAM-C1'SG	C	A	G	T	A	A	C	G	A	G	G	T	T	T	T	T	175
ODAM-C2'SG	C	A	G	T	A	A	C	G	A	G	G	T	T	T	T	T	175

	165	170	175	180	185	190	195	200	205	210	215	220	225	230	235	240	
conservation	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	
ODAM'IP	C	T	C	C	G	T	T	C	C	A	G	T	T	C	C	A	240
ODAM'LV	C	C	C	C	T	A	C	C	T	A	C	C	T	A	C	C	201
ODAM'PP	C	C	C	C	T	A	C	C	T	A	C	C	T	A	C	C	237
ODAM-CI	C	T	C	C	T	A	C	C	T	A	C	C	T	A	C	C	240
ODAM-DR	C	T	C	C	T	A	C	C	T	A	C	C	T	A	C	C	240
ODAM-PN	C	A	C	A	T	T	C	C	A	T	T	C	C	A	T	T	255
ODAM-C1'CC	C	T	C	C	T	A	C	C	T	A	C	C	T	A	C	C	240
ODAM-C2'CC	C	T	C	C	T	A	C	C	T	A	C	C	T	A	C	C	240
ODAM-C1'SA	C	T	C	C	T	A	C	C	T	A	C	C	T	A	C	C	183
ODAM-C2'SA	C	T	C	C	T	A	C	C	T	A	C	C	T	A	C	C	240
ODAM'SR	C	T	C	C	T	A	C	C	T	A	C	C	T	A	C	C	240
ODAM-C1'SG	C	T	C	C	T	A	C	C	T	A	C	C	T	A	C	C	240
ODAM-C2'SG	C	T	C	C	T	A	C	C	T	A	C	C	T	A	C	C	240

	245	250	255	260	265	270	275	280	285	290	295	300	305	310	315	
conservation	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	
ODAM'IP	T	T	C	T	G	A	C	C	C	A	C	A	A	C	A	317
ODAM'LV	T	T	C	T	T	T	T	T	T	T	T	T	T	T	T	272
ODAM'PP	T	T	C	T	T	T	T	T	T	T	T	T	T	T	T	317
ODAM-CI	T	T	C	T	T	T	T	T	T	T	T	T	T	T	T	320
ODAM-DR	T	T	C	T	T	T	T	T	T	T	T	T	T	T	T	311
ODAM-PN	T	T	C	T	T	T	T	T	T	T	T	T	T	T	T	332
ODAM-C1'CC	T	T	C	T	T	T	T	T	T	T	T	T	T	T	T	320
ODAM-C2'CC	T	T	C	T	T	T	T	T	T	T	T	T	T	T	T	320
ODAM-C1'SA	T	T	C	T	T	T	T	T	T	T	T	T	T	T	T	263
ODAM-C2'SA	T	T	C	T	T	T	T	T	T	T	T	T	T	T	T	320
ODAM'SR	T	T	C	T	T	T	T	T	T	T	T	T	T	T	T	320
ODAM-C1'SG	T	T	C	T	T	T	T	T	T	T	T	T	T	T	T	320
ODAM-C2'SG	T	T	C	T	T	T	T	T	T	T	T	T	T	T	T	320

	320	325	330	335	340	345	350	355	360	365	370	375	380	385	390	395	
conservation	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	
ODAM'IP	C	C	C	C	A	C	A	A	C	C	T	C	C	C	C	A	397
ODAM'LV	C	C	C	C	A	A	C	C	G	G	T	T	C	C	T	C	349
ODAM'PP	T	C	C	C	A	C	A	A	T	T	C	C	T	C	T	C	394
ODAM-CI	T	C	C	C	A	A	C	C	G	G	T	T	C	C	T	C	397
ODAM-DR	T	C	C	C	A	C	A	A	T	T	C	C	T	C	T	C	387
ODAM-PN	C	C	C	C	A	C	A	A	T	T	C	C	T	C	T	C	409
ODAM-C1'CC	T	C	C	C	A	C	A	A	T	T	C	C	T	C	T	C	397
ODAM-C2'CC	T	C	C	C	A	C	A	A	T	T	C	C	T	C	T	C	397
ODAM-C1'SA	T	C	C	C	A	C	A	A	T	T	C	C	T	C	T	C	340
ODAM-C2'SA	T	C	C	C	A	C	A	A	T	T	C	C	T	C	T	C	397
ODAM'SR	T	C	C	C	A	C	A	A	T	T	C	C	T	C	T	C	397
ODAM-C1'SG	T	C	C	C	A	C	A	A	T	T	C	C	T	C	T	C	397
ODAM-C2'SG	T	C	C	C	A	C	A	A	T	T	C	C	T	C	T	C	397

	400	405	410	415	420	425	430	435	440	445	450	455	460	465	470	
conservation	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	
ODAM'IP	A	C	A	C	G	T	G	C	C	A	T	A	T	T	C	471
ODAM'LV	A	C	A	C	T	C	T	G	A	A	G	G	T	G	A	429
ODAM'PP	A	C	A	C	C	T	G	T	A	A	G	G	T	G	A	474
ODAM-CI	A	C	A	C	T	C	T	G	A	A	G	G	T	G	A	474
ODAM-DR	..	A	C	T	C	T	G	T	A	A	G	G	T	G	A	459
ODAM-PN	A	C	..	C	C	A	A	T	A	G	T	T	C	C	A	486
ODAM-C1'CC	A	C	A	C	T	C	T	G	A	A	G	G	T	G	A	477
ODAM-C2'CC	A	C	A	C	T	C	T	G	A	A	G	G	T	G	A	477
ODAM-C1'SA	A	C	A	C	T	C	T	G	A	A	G	G	T	G	A	420
ODAM-C2'SA	A	C	A	C	T	C	T	G	A	A	G	G	T	G	A	477
ODAM'SR	A	C	A	C	T	C	T	G	A	A	G	G	T	G	A	477
ODAM-C1'SG	A	C	A	C	T	C	T	G	A	A	G	G	T	G	A	477
ODAM-C2'SG	A	C	A	C	T	C	T	G	A	A	G	G	T	G	A	477

	475	480	485	490	495		500	505	510	515	
conservation	*****	***	**!	*****	***	* ** *	*	*		***	
ODAM'IP	ACTAA	...	GTCCT	CAGCCTG	TGCAGAAT	.....	AACGGGAAGGTGGT	GGA			515
ODAM'LV	ATGCAA	...	CCAGTGCAACCAATACAGGGTTAGGGTAGG	ATTAGGAAC	.....	AGGGTGAAGGCAGT	AGA				491
ODAM'PP	ATGCAA	...	CCAGTGCAACCAATTCGACCAATACAGAAC	.....	AGGGTGAAGGCAGT	AGA					527
ODAM-CI	GTGCAA	...	CCAATGCAACCAAGTGCAACCAATCCAGAAC	.....	AGGGTGAAGGCAGT	AGA					536
ODAM-DR	ATGCAA	...	CCAATGCAGCCAATGCAACCAATACAGCCAATACAACCAATCCAGAAC	.....	AGAGGGAATTTGGC	AGA					530
ODAM-PN	ACTCCAGCA	CCCCCA	CAGCCTGCGCAGCCAGTAAATATT	AAACGGTTCTCAAGAAACTCAATA	AAGGGAAACCTTCCTCC						566
ODAM-C1'CC	GTGCAA	...	CCAATCCAGAAATATTT	CACATTTTT	CAG	.....	AACAGGGGAAAGC	AGA			530
ODAM-C2'CC	GTGCAA	...	CCATTGCAACCAATGCAGCCAGTGCAACCAATGCAACCA	.....	AGCCAGGGAAAGTC	AGA					539
ODAM-C1'SA	ATGCAAG	...	CCAGTGCAACCAATCCAGCCTCTGCCACCAACAACAAT	.....							465
ODAM-C2'SA	GTGCAA	...	CCAATGCAACCAATGCAACCAATGCAGCCA	.....	AACAGGGGAAAGTC	AGA					530
ODAM'SR	GTGCAA	...	CCAATGCAACCAATGCAGCCAGTGCAACCAATGCAACCAATGCAACCA	.....	ATACA						536
ODAM-C1'SG	GTGCAA	...	CCAATACAACCAATCCAG	.....							501
ODAM-C2'SG	GTGCAA	...	CCAATGCAGCCAGTGCAACCAATGCAACCAATGCAACCAATACAACCAATCCAG	AACAGGGGAAAGTC	AGA						554

	520	525	530	535	540	545	550	555	560	565	570	
conservation	***	*****	*****	*****	*****	*****	*****	*****	*****	*****	***	
ODAM'IP	GCCGTGGC	ACATGACTCCGC	CCCTGAAAACCGTG	GGTGATCGT	CCTGGGCGTGGT							570
ODAM'LV	CCCCG	...ATGGTAACGTCTGCTCCTGATTACCGTG	GGTGATCGGCCCGGT	CCTGGA								543
ODAM'PP	CCCCG	...ATGGTAACGTCTGCTCCTGATTACCGTG	GGTGATCGGCCCGGT	CCTGGA								579
ODAM-CI	CCCCG	...AAGGTAACGTCTGCTCCTGATTACCGTG	GGTGATCGGCCCGGT	CCTGGA								588
ODAM-DR	CCCCG	...AAAGCAACGTCTGTG	CCTGAATACCGGGGTGATCGA	CCCGGT	CCTGGA							582
ODAM-PN	TCCT	.....	GGTGGCCAGCGT	CCTCCACTTGGC								594
ODAM-C1'CC	CCCCG	...AAGGTAACGTCTGCTCCTGATTACCGTG	GGTGATCGGCCCGGT	TCCTGGA								582
ODAM-C2'CC	CCAG	...AAGGTAACGTCTGCTCCTGATTACCGTG	GGTGATCGGCCCTGGTCCGGA									591
ODAM-C1'SA		.....										465
ODAM-C2'SA	CCCCG	...AAGGTAACGTCTGCTCCTGATTACCGTG	GGTGATCGGCCCGGTCCGGA									582
ODAM'SR	ACCAATCC	AGGTAACGTCTGCTCCTGATTACCGTG	GGTGATCGGCCCGGTCCGGA									591
ODAM-C1'SG		.....										501
ODAM-C2'SG	CCCCG	...AAGGTAACGTCTGCTCCTGATTACCGTG	GGTGATCGGCCCGGTCCGGA									606

- ⬜ non conserved
- ⬜ ≥ 55% conserved
- ⬜ ≥ 85% conserved