Supplemental Table 2 Detailed annotations of the 125 O

Name	Acc. No (TIGR)
OsWAK1*	2861.t00006
OsWAK2*	2861.t00011
OsWAK3*	4748.t00012
	(4986.t00013)
OsWAK4*	4748.t00014
OsWAK5	2768.t00008 (fused gene)
OsWAK6	2768.t00013
OsWAK7#(merged to OsWAK8)	*2768.t00019*
OsWAK7/8	2768.t00020
OsWAK9*	2768.t00022
OsWAK10*	2884.t00031
OsWAK11	3783.t00017
OsWAK12*	4362.t00002
OsWAK13	4362.t00004
OsWAK14	2541.t00004
OsWAK15	2541.t00005
OsWAK16	2541.t00008
OsWAK17##	2421.t00020
OsWAK18##	2477.t00020
	(3351.t00001)
OsWAK19##	2477.t00018
OsWAK20	9630.t05379
OsWAK21*	2477.t00014
	(2422.t00016)
OsWAK22	2477.t00012
	(2422.t00014)
OsWAK23##	2477.t00010
	(2422.t00012)
OsWAK24	4897.t00005
OsWAK25	9631.t01093
OsWAK26	4613.t00011
OsWAK27	9631.t04035
OsWAK28	9631.t05834
OsWAK29	9632.t00287
OsWAK30# (merged into OsWAk31)	*8332.t00008*
OsWAK30/31#	8332.t00009
OsWAK32	9632.t02240
OsWAK34	8323.t00010
OsWAK33#	8323.t00013
OsWAK35##	9632.t02248
OsWAK36	5112.t00008
OsWAK37##	9632.t02778
OsWAK38	9632.t02788
OsWAK39	9632.t02794
OsWAK40#	9632.t02799
OsWAK41#	4577.t00022(8273.t00022
OsWAK42	4577.t00017(8273.t00001
OsWAK43	4577.t00014(8273.t0004)
OsWAK44	9632.t02820
OsWAK45	9632.t02822
OsWAK46	8278.t00007(4556.t00017
OsWAK47	9632.t02847

OsWAK48#	9632.t02849
OsWAK49*	5443.t00017
OsWAK50	8142.t00001(5491.t00001
OsWAK51	9632.t04098
OsWAK52##	9632.t04787
OsWAK53	9632.t04791
OsWAK54##	5380.t00019(2960.t00002
OsWAK55	5380.t00020
OsWAK56	2968.t00014
OsWAK57/58	4374.t00003
OsWAK58# (merged to OsWAK57)	*4374.t00004*
OsWAK59*	4374.t00007
OsWAK60	4374.t00015
OsWAK61	3015.t00018
OsWAK62##	3009.t00005
OsWAK63	3009.t00012
OsWAK64	9634.t04636
OsWAK65	9634.t04645
OsWAK66**	9635.t00670
OsWAK67##	3459.t00011
OsWAK68**	3459.t00009
OsWAK69*	2123.t00006
OsWAK70*	2123.t00010
OsWAK71*	2123.t00013
OsWAK72*	2123.t00019
OsWAK73	9636.t03851(fused gene)
OsWAK74	9636.t03854
OsWAK75	9636.t03855
OsWAK76*	9636.t03857
OsWAK77*	3081.t00013
OsWAK78#	3081.t00017
OsWAK79	5662.t00009
OsWAK80	9637.t02571
OsWAK81*	9637.t01754
OsWAK82*	9637.t02574
OsWAK83**	9637.t02576
OsWAK84#	9637.t02578
OsWAK85*	9637.t02580
OsWAK86**	9637.t01417
OsWAK87	9637.t02672
OsWAK88**	4967.t00009
OsWAK89a	nd
OsWAK89b	9637.t03234 (fused gene)
OsWAK90	4967.t00013
OsWAK91	4967.t00014
OsWAK92	9637.t03242
OsWAK93*	nd
OsWAK94#	nd
OsWAK95	3135.t00009
OsWAK96# (merged to OsWAK97)	*3135.t00011*
OsWAK96/97	3135.t00012

OsWAK98*	3135.t00019
OsWAK99	3164.t00008
OsWAK100*	3830.t00015
	(gi|16519460)
OsWAK101##	3178.t00010
OsWAK102*	3178.t00025
OsWAK103	3970.t00002
	(3163.t00024)
OsWAK104	3970.t00008
OsWAK105	3970.t00013
OsWAK106	gi|19881772
OsWAK107#	gi|22711562
OsWAK108	gi|19881780
OsWAK109# (merged to OsWAK110)	*3650.t00008*
OsWAK109/110	3650.t00009
OsWAK111	9638.t00862
OsWAK112	3738.t00007
OsWAK113#	3170.t00013
OsWAK114*	3170.t00015
OsWAK115#	3580.t00004
OsWAK116*	7185.t00001(6649.t0001)
OsWAK117*	7185.t00010(6649.t00010
OsWAK118*	7185.t00014(6649.t00014
OsWAK119*	7185.t00017(6649.t00017
OsWAK120	9639.t03169
OsWAK121	9639.t04303
OsWAK122	6324.t00019
OsWAK123	6324.t00020
OsWAK124#	4517.t00012
OsWAK125#	1894.t00003
	(4434.t00002)
OsWAK126	5650.t00002
OsWAK127##	6563.t00001(7234.t00001
OsWAK128	6563.t00002(7234.t00002
OsWAK129	6563.t00003(7234.t00003

***OsWAL-RLCK, total=28**

#OsWAK-RLP, total=13
OsWAK-short gene, total=12
****OsWAK-pseudogene, total=5**
nd=no data

)sWAKs.

GenBank ID	BAC
P0443D08.10	P0443D08
P0443D08.15	P0443D08
P0551A11.19 (pseudo, mis 5' exon)	P0551A11
	(OJ1116_C07)
P0551A11.27	P0551A11
P0503E05.16	P0503E05
P0503E05.28 (pseudo, mis 5' exon)	P0503E05
P0503E05.38 (-5')	*P0503E05*
P0503E05.38 (-3')	P0503E05
P0503E05.40 (pseudo, mis 5' exon)	P0503E05
nd	P0519D04
P0501G04.26	P0501G04
nd	P0656G12 (not completed)
nd	P0656G12 (not completed)
OJ1643_A10.5	OJ1643_A10
OJ1643_A10.7	OJ1643_A10
OJ1643_A10.14	OJ1643_A10
OJ1111_E07.2 (1854 - 2854)	OJ1111_E07
OJ1520_C09.2	OJ1520_C09
	(OSJNBa0049O12)
OJ1520_C09.6 (21993..22307)	OJ1520_C09
OJ1520_C09.11	OJ1520_C09
OJ1520_C09.13(46055..48907, stop codon(s) in CDS)	OJ1520_C09
	(OJ1112_G06)
OJ1520_C09.15	OJ1520_C09
	(OJ1112_G06)
OJ1520_C09.19	OJ1520_C09
	(OJ1112_G06)
P0016F11.13	P0016F11
OSJNBa0081P02.15	OSJNBa0081P02
nd	OSJNBa0025B02 (not completed)
nd	OSJNBa0025B02 (not completed)
OSJNBa0075M12.12	OSJNBa0075M12
B1340F09.9	B1340F09
OSJNBa0055H05.4	*OSJNBa0055H05*
OSJNBa0055H05.5	OSJNBa0055H05
OSJNBa0023J03.15	OSJNBa0023J03
OSJNBb0032D24.8	OSJNBb0032D24
OSJNBb0032D24.11	OSJNBb0032D24
OSJNBa0024J22.12	OSJNBa0024J22
OSJNBa0033H08.8	OSJNBa0033H08
nd	OSJNBa0081G05
OSJNBa0081G05.15	OSJNBa0081G05
nd	OSJNBa0049H08
nd	OSJNBa0049H08
OSJNBa0016N04.2	OSJNBa0016N04
nd	OSJNBa0016N04
OSJNBa0016N04.10	OSJNBa0016N04
OSJNBa0016N04.12	OSJNBa0016N04
OSJNBa0016N04.13	OSJNBa0016N04
OSJNBb0042I07.11	OSJNBb0042I07
OSJNBb0076A22.6	OSJNBb0076A22

OSJNBb0076A22.8	OSJNBb0076A22
OSJNBb0076A22.17	OSJNBb0076A22
nd	OSJNBa0083N12
OSJNBa0073E02.11	OSJNBa0073E02
OSJNba0093F12.18	OSJNBa0093F12
OSJNba0093F12.22	OSJNBa0093F12
OSJNBb0059K02.18	OSJNBb0059K02
OSJNBb0059K02.19	OSJNBb0059K02
nd	P0519E07
nd	OJ1480_H01 (not completed)
nd	*OJ1480_H01 (not completed)*
nd	OJ1480_H01 (not completed)
nd	OJ1480_H01 (not completed)
P0535G04.24	P0535G04
OSJNBa0033B09.26	OSJNBa0033B09
OSJNBa0033B09.36	OSJNBa0033B09
P0018H04.10	P0018H04
P0018H04.26	P0018H04
OSJNBa0050F10.15 (pseudo, stop codon(s) in CDS)	OSJNBa0050F10
P0639B07.28 (pseudo)	P0639B07
P0639B07.28 (pseudo, stop codon(s) in CDS)	P0639B07
nd	OJ2096_F11
	(OJ1058_B11)
nd	OJ2096_F11
(gi|29243363)	(OJ1058_B11)
nd	OJ2096_F11
(gi|22202753)	(P0038F10)
nd	OJ2096_F11
(gi|22202747)	(P0038F10)
OJ1345_D02.11	OJ1345_D02
OJ1345_D02.15	OJ1345_D02
OJ1345_D02.17	OJ1345_D02
OJ1345_D02.20 (pseudo, stop codon(s))	OJ1345_D02
OJ1484_G09.121	OJ1484_G09
OJ1484_G09.127	OJ1484_G09
nd	P0684H11 (not completed)
OJ1118_B06.13 (pseudo, mis 5' exon)	OJ1118_B06
OJ1118_B06.15	OJ1118_B06
OJ1118_B06.17 (pseudo, stop codon(s))	OJ1118_B06
OJ1118_B06.19 (pseudo, frameshift(s))	OJ1118_B06
OJ1118_B06.22(pseudo, stop codon(s))	OJ1118_B06
OJ1118_B06.25	OJ1118_B06
OJ1104_G11.11 (pseudo, stop codon(s))	OJ1104_G11
nd	OJ1011_C06 (not completed)
P0635G10.10 (pseudo, stop codon(s))	P0635G10
P0635G10.14	
P0635G10.15	P0635G10
P0635G10.16	P0635G10
P0635G10.17	P0635G10
P0635G10.28	P0635G10
OSJNBa0096E22.10	OSJNBa0096E22
OSJNBa0096E22.11	OSJNBa0096E22
OSJNBb0012A20.9	OSJNBb0012A20
OSJNBb0012A20.11	*OSJNBb0012A20*
OSJNBb0012A20.12	OSJNBb0012A20

OSJNBb0012A20.17	OSJNBb0012A20
OSJNBa0023I19.8	OSJNBa0023I19
OSJNAa0029P06.11	OSJNAa0029P06
	(OSJNBa0034A02)
OSJNBa0034A02.10	OSJNBa0034A02
OSJNBa0034A02.20	OSJNBa0034A02
OSJNBa0028C16.1	OSJNBa0028C16
	(OSJNBa0031A07)
OSJNBa0028C16.5	OSJNBa0028C16
OSJNBa0028C16.9	OSJNBa0028C16
OSJNBa0011A24.19	OSJNBa0011A24
OSJNBa0011A24.20	OSJNBa0011A24
OSJNBa0051J07.1(shorter, 226-2295)	OSJNBa0051J07
OSJNBa0051J07.6	*OSJNBa0051J07*
OSJNBa0051J07.7	OSJNBa0051J07
OSJNBa0047G15.20	OSJNBa0047G15
OSJNBa0095J15.4	OSJNBa0095J15
OSJNBa0093I09.13	OSJNBa0093I09
OSJNBa0093I09.15	OSJNBa0093I09
nd	OSJNBb0083E23 (not completed)
nd	OSJNBb0084M23
nd	OSJNBb0084M23
nd	OSJNBb0084M23
nd	OSJNBb0084M23
nd	OSJNBa0018K14
nd	OSJNBa0004O15
LOC_Os11g47150	OSJNBa0059H21
LOC_Os11g47140	OSJNBa0059H21
nd	OSJNBb0077C18
nd	OSJNBa0005P03
	(OSJNBa0090O14)
nd	OJ1327_A12
nd	OJ1388_B05
nd	OJ1388_B05
nd	OJ1388_B05

Position on BAC	BAC Acc. No	Chr. No.	Correction from FL-cDNA
29030-19425 (23981-19682)	AP003250	1	cDNA longer (5' extention)
43923-39223	AP003250	1	matched
77487-81898	AP003934	1	
	(AP004253)		
99485-103742 (94340-	AP003934	1	cDNA shorter (cut 5' start, extra intron)
44067-47190 (28886-47190)	AP003021	1	
77193-75021	AP003021	1	
111799-112866	*AP003021*	*1*	
111799(115670)-117901	AP003021	1	
124344-122808	AP003021	1	
193004-191559	AP003455	1	(cDNA longer, recoverd the 3' end)
108547-105878	AP004752	2	cDNA matched
20165-17788	AP005070	2	cDNA matched but not protein
30216-27751	AP005070	2	
25753-22627	AP004192	2	
34166-30901	AP004192	2	
52048-48847	AP004192	2	
1854-3733	AP003994	2	
15203-12718	AP004064	2	matched, but not proteins, anti
	(AC069158)		
22648-21993	AP004064	2	
42012-39144	AP004064	2	
48881-44565	AP004064	2	cDNA shorter (3'-end)
	(AP003996)		
63712-60989	AP004064	2	
	(AP003996)		
74709 - 83041 (74719-79628)	AP004064	2	cDNA longer (3' extend, exon missed)
	(AP003996)		
57207-59700	AP005303	2	
100827-105080	AC107226	3	matched
126529-117196	AL732379	3	
82983-78747	AL732379	3	
62180-57804 (61107-57899)	AC096856	3	matched
53321-57380	BX842608	4	matched
28387-34847	*AL606601*	*4*	*matched*
28387 (36556)-40633	AL606601	4	matched
129368-133960	AL731597	4	matched
69376-74582	AL662995	4	
90512-95401	AL662995	4	matched
90137 -91364 (85900-90993)	AL731596	4	cDNA shorer (5' start short)
64045-59431	AL662942	4	
75899-80668	AL662983	4	matched
162320-158764	AL662983	4	
110041-104375	AL663020	4	
139049-134781	AL663020	4	
25499-22922	AL731587	4	
57162-52968	AL731587	4	
84068-81422	AL731587	4	
98483-95065	AL731587	4	
116721-113211	AL731587	4	
105778-101749	AL731632	4	cDNA longer (exon missed)
37847-34496	AL663016	4	

57103-51171	AL663016	4	
94477-99188	AL663016	4	
1562-63 (BAC end)	AL606683	4	cDNA longer and recovered the 3' end
79137-75746	AL731616	4	
126286-130997 (126518-1305	AL607004	4	cDNA longer and anti (5' and 3' extend)
153330-150959	AL607004	4	matched
102360-103436	AL606692	4	
109170-112678	AL606692	4	
90068-85952	AC087552	5	
27676(23550)-18839	AC118287	5	
28883-27676(91-1298)	*AC118287*	*5*	
43129-46013	AC118287	5	
95940-102715	AC118287	5	
87655-91449	AP000399	6	
93099-92809	AP002864	6	
133724-130826	AP002864	6	
42150-38060	AP003761	6	
102818-97220	AP003761	6	
66670-68825	AP005840	7	
75663-76286	AP004344	7	
82978-85520	AP004344	7	
40250-35292	AP003964	7	cDNA is a Pack-Mule anti, OsWAK after the
	(AP003864)		
57853-56185	AP003964	7	
	(AP003864)		
76209-74449	AP003964	7	
	(AP004266)		
120396-116283 (119010-	AP003964	7	cDNA longer (5' extend)
	(AP004266)		
43613-48894(52058-35363)	AP003892	8	
64449-60887	AP003892	8	
66520-69304	AP003892	8	
74129-79407	AP003892	8	cDNA longer
59862-58825	AP003913	8	
81555-79365	AP003913	8	
147851-151854	AP005427	9	
50203-46104	AP005555	9	
58953-57452 (61603-57621)	AP005555	9	cDNA shorter (5'-end)
67431-64801	AP005555	9	cDNA longer
75558-72891	AP005555	9	
83345-92781 (85776-83616)	AP005555	9	cDNA longer
104145-98899	AP005555	9	matched
36704-33386	AP005091	9	
88281-84606	AP005677	9	cDNA longer
33080-36255	AP005396	9	
43653..46192			
48171..50849	AP005396	9	
52334-55161	AP005396	9	
56434..59421	AP005396	9	matched
89468-92031	AP005396	9	matched
67851-70996	AC099400	10	
78489-80103	AC099400	10	
52624-59233	AC079685	10	
76115-77068	*AC079685*	*10*	
76115(78565)-81749	AC079685	10	

105973-111450	AC079685	10	matched
43539-46700	AC079037	10	
68179-68661	AC112513	10	
	(AC079852)		
78800-76602 (74404-78523)	AC079852	10	cDNA shorter and anti
144200-146152	AC079852	10	
9577-14188	AC098565	10	
	(AC084884)		
39237-46086	AC098565	10	
70660-75822	AC098565	10	
113786-116932	AC113336	10	
119419-120907	AC113336	10	
	AC098566	10	
35194-36318	*AC098566*	*10*	
35194(39770)-42862	AC098566	10	
98240-104974	AC083944	10	
60487-67045	AC092173	10	cDNA longer
46709-47620	AC090486	10	
61050-62225	AC090486	10	
11963-14153	AC105745	10	
1788-419	AC137753	11	
64018-62015	AC137753	11	matched
78947-78270	AC137753	11	
96403-94418	AC137753	11	
138918-136918	AC120889	11	
24055-17803	AC146937	11	
103897-99596	AC116367	11	
112425-106986	AC116367	11	
62941-59901	AL731874	12	cDNA shorter (3'-end)
11222-12929	AL513002	12	
	(AL731763)		
4758-1914	AL713940	12	
6852-9756	BX000457	12	matched but UTR longer, anti
12461-14450 (11526-14247)	BX000457	12	cDNA shorter (5' start short)
18346-21342	BX000457	12	matched (both sense and anti)

intron (coding region)	Note				
3					
3					
4	(OsWAK-RLCK type gene)				
3					
2					
0	shorter 5' region, but have EGF				
0	*(60% to OsWAK5)*				
1	(84 % to OsWAK5)				
1	(78% to OsWAK6)				
0,2,4	(on BAC end, intact gene recovered)				
2					
3					
2					
2					
2					
2					
2	(48% to the end of OsWAK53b)				
0,0	(not to any OsWAK)				
0	(50% to OsWAK22)				
2					
3					
3					
0	(52% to OsWAK21)				
2					
2					
>3					
2					
3					
3					
2	*AK058435 (FL-cDNA)*				
2	AK058435 (FL-cDNA)				
1					
5					
3					
0	(49% to the end of OsWAK112a)				
4					
1	(very short, not to any OsWAK)				
2					
3					
2	(65% to OsWAK33, EGF)				
2	(40% to OsWAK33, EGF)				
4					
2					
2					
3					
2					
3 (ex)					

4	(61% to OsWAK43, EGF)				
1	(75% to OsWAK43)				
1	(42% To OsWAK53a, EGF)				
2					
0	(very short, to none OsWAK)				
0,2					
0	(35% to OsWAK55, EGF start)				
3					
1					
1	(72% to OsWAK45)				
1	*44% to OsWAK45*				
2	(48% to OsWAK48)				
4					
3					
0	(92% to the end of OsWAK63)				
3					
2					
4					
3					
	(68 % to OsWAK105)				
1					
0	(98% to OsWAK94)				
1					
1					
0					
5					
2					
2					
0	OsWAK-RLCK gene (79% to OsWAK74)				
0	(60% to OsWAK20)				
2	(41% to OsWAK20)				
5					
4	missed 5' region recovered				
0	(66% to OsWAK80)				
0	(81% to OsWAK83)				
4					
2	(51% to OsWAK80, EGF)				
0	(74% to OsWAK80)				
5					
1					
3					
1					
2					
1					
1					
2					
4	(80% to OsWAK105)				
0	(70% to OsWAK105)				
3					
0	*(77% to OsWAK95)*				
2	(77% To OsWAK95)				

0	(47% to OsWAK119)				
2					
0	(65% to OsWAK116)				
0	(very short, similar to the end of OsWAK28)				
0	(41% to OsWAK119)				
2					
2					
2					
2	(43% to OsWAK108)				
1	(38% to OsWAK108)				
3					
1	*37% to OsWAK108*				
3	61% to OsWAK108				
3					
1,2,3					
0	(55% to OsWAK105)				
1	(82% to OsWAK105)				
2	(85% to OsWAK78, EGF)				
0					
1					
0					
0					
2					
4					
4					
3					
2	(48% to OsWAK88, EGF)				
2	(42% to OsWAK89, EGF)				
2					
0,2	(very short, but 42 % to OsWAK26)				
0,1					
0,2					

