

Table 2 Basic information of ASAT encoding gene family members in rice

Gene ID	Gene name	Chromosome	Starting point	Ending point	Gene length (bp)	Synonymous sites	Non Synonymous sites
LOC_Os01g01010.1	<i>OsASAT1</i>	Chr1	4754	5797	1044	93.5	332.5
Os02g0100050	<i>OsASAT2</i>	Chr2	392	2696	2305	96.83	329.17
LOC_Os02g01020.1	<i>OsASAT3</i>	Chr2	9298	13896	4599	96.33	329.67
LOC_Os02g01030.1	<i>OsASAT4</i>	Chr2	14061	18598	1125	90	336
LOC_Os02g25700.1	<i>OsASAT5</i>	Chr2	15044756	15045814	1059	112.5	313.5
LOC_Os02g26840.1	<i>OsASAT6</i>	Chr2	15759511	15760551	1041	118	308
LOC_Os04g01006.1	<i>OsASAT7</i>	Chr4	2032	3679	855	93.83	332.17
LOC_Os04g01008.1	<i>OsASAT8</i>	Chr4	4951	8636	2463	101.5	324.5
LOC_Os04g20880.1	<i>OsASAT9</i>	Chr4	11720537	11721807	1035	114.83	311.17
LOC_Os04g40580.1	<i>OsASAT10</i>	Chr4	24098305	24099665	1050	121	305
LOC_Os04g40590.1	<i>OsASAT11</i>	Chr4	24101138	24102493	1038	123.5	302.5
LOC_Os07g01010.1	<i>OsASAT12</i>	Chr7	2362	3134	435	96	330
LOC_Os07g35570.1	<i>OsASAT13</i>	Chr7	21293128	21294251	1124	116.5	309.5
LOC_Os07g44030.1	<i>OsASAT14</i>	Chr7	26311992	26313267	1276	104.33	321.67

Note: Cyto: Cytoplasm; Chlo: Chloroplast; ER: Endoplasmic reticulum; Mito: Mitochondria; Nucl: Nucleus; Plas: Plasma membrane; Vacu: Vacuole