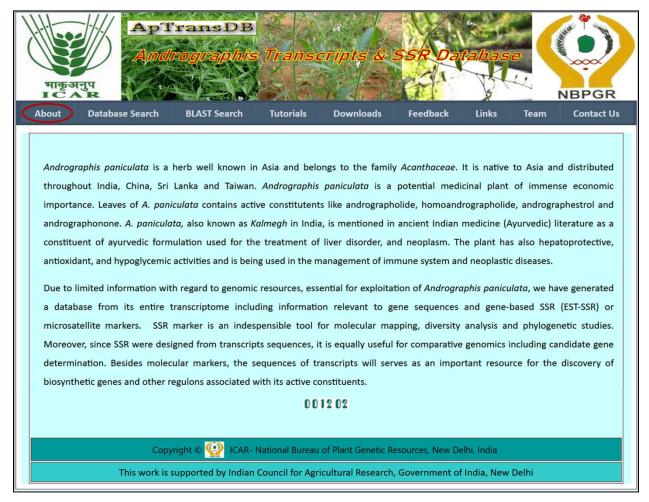


ApTransDB (*Andrographis paniculata* Transcripts & SSR Database) accessible via the web address <u>http://www.nbpgr.ernet.in:8080/Andrographis/</u> having nine different tabs:

About: This page provides basic information about *Andrographis paniculata*, its medicinal importance and application of microsatellite markers and transcripts.



Database Search: This is the main tab of this database from where user can search predicted perfect SSRs along with 3 primer pairs using different search criteria such as, search by SSRs type, search by SSR motif, search by motif length & repeat type, search by annotation keyword, or search by sequence Id/SSR Id. List of TF categories, annotation of transcripts based on gene ontology (GO) as well as important gene families related to biochemical compounds biosynthesis in *A. paniculata*.



SSRs Information:

Perfect SSR Search:

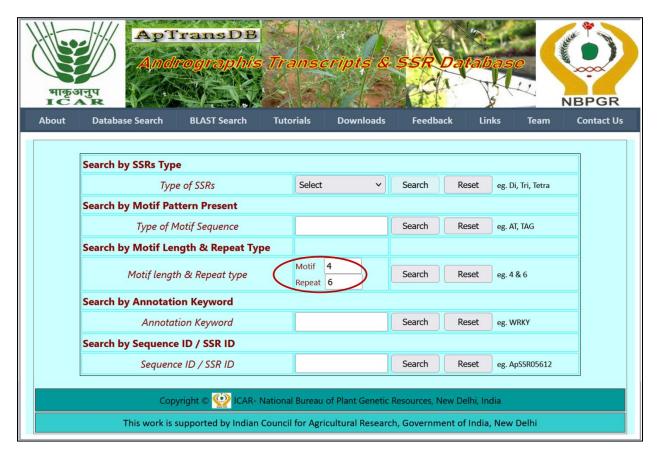
*User can search the database using search criteria "Search by SSRs Type"

MIRE	Ap1 And	ransDB rographis	Transe	ripts &	ssr Da	tabase	NBPGR
About	Database Search	BLAST Search	Tutorials	Downloads	Feedback	Links Team	Contact Us
	Search by SSRs Typ	e					
	Тур	Tri	<u> </u>	Search	eg. Di, Tri, Tetra		
	Search by Motif Par	ttern Present	Select				
	Type of N	Notif Sequence	Di		Search	eg. AT, TAG	
	Search by Motif Ler	ngth & Repeat Typ					
	Motif lengt	h & Repeat type	Penta Hexa		Search R	eset eg. 4 & 6	
	Search by Annotati	on Keyword	~				
	Annota	tion Keyword			Search	eg. WRKY	
	Search by Sequence	e ID / SSR ID					
	Sequence	ce ID / SSR ID			Search	eset eg. ApSSR05612	
		yright © 🔮 ICAR- ۱ supported by Indian					

*User can search the database using search criteria "Search by Custom Motif Sequence"

HIRPO	ApT Andi	ransDB Tographis	Tran	script:	s ssr	Datal	base	NBPGR
About	Database Search	BLAST Search	Tutorials	Downl	oads Feed	lback Li	inks Team	Contact Us
	Search by SSRs Type	9						
	Type of SSRs			ect	✓ Search	Reset	eg. Di, Tri, Tetra	
	Search by Motif Pat	tern Present						
	Type of M	lotif Sequence	TA	ä	Search	Reset	eg. AT, TAG	
	Search by Motif Len	igth & Repeat Typ)e					
	Motif length	h & Repeat type	Mot Rep		Search	Reset	eg. 4 & 6	
	Search by Annotatic	on Keyword						
	Annotat	ion Keyword			Search	Reset	eg. WRKY	
	Search by Sequence	ID / SSR ID						
	Sequence	e ID / SSR ID			Search	Reset	eg. ApSSR05612	
		rright © 🔮 ICAR- I						

*User can search the database using search criteria "Search by Motif Length and Repeat Type"



*User can search the database using search criteria "Search by Annotation"

HIRD		ransDB Fographis	Transo	ripts &	SSR	Databa	se	NBPGR
About	Database Search	BLAST Search	Tutorials	Downloads	Feedba	ck Links	Team	Contact Us
	Search by SSRs Type	e						
	Тур	e of SSRs	Select	~	Search	Reset eg	g. Di, Tri, Tetra	
	Search by Motif Pat	tern Present						
	Type of N	lotif Sequence			Search	Reset eg	g. AT, TAG	
	Search by Motif Ler	ngth & Repeat Typ	e					
	Motif lengt	h & Repeat type	Motif Repeat		Search	Reset	g. 4 & 6	
	Search by Annotation	on Keyword						
	Annotat	tion Keyword	WRKY	>	Search	Reset eg	g. WRKY	
	Search by Sequence	ID / SSR ID						
	Sequenc	e ID / SSR ID			Search	Reset eg	g. ApSSR05612	
	Cop	yright © 🥨 ICAR- N	National Bureau	of Plant Genetic	Resources, N	ew Delhi, India	1	
	This work is s	supported by Indian (Council for Agr	icultural Researc	ch, Governme	ent of India, Ne	ew Delhi	

*User can search the database using search criteria "SSR Id"

HIRD C	ApT And	ransDB rographis	Tra	nscrip	s &	ssR	Datal	base	NBPGR
About	Database Search	BLAST Search	Tuto	ials Dow	nloads	Feedba	ick Li	nks Team	Contact Us
	Search by SSRs Typ	e e of SSRs		Select	~	Search	Reset	eg. Di, Tri, Tetra	
	Search by Motif Pat		Sciect		Sedicit	Keset			
	Type of Motif Sequence					Search	Reset	eg. AT, TAG	
	Search by Motif Ler	ngth & Repeat Typ	be						
	Motif lengt	h & Repeat type		Motif Repeat		Search	Reset	eg. 4 & 6	
	Search by Annotati	on Keyword							
	Annotat	tion Keyword				Search	Reset	eg. WRKY	
	Search by Sequence	ID / SSR ID							
	Sequenc	e ID / SSR ID	\langle	ApSSR05612		Search	Reset	eg. ApSSR05612	
	Сор	yright © 👰 ICAR- I	National	Bureau of Plant	Genetic I	Resources, N	ew Delhi, Ir	ndia	
	This work is s	supported by Indian	Council	for Agricultural	Researc	h, Governm	ent of India	a, New Delhi	

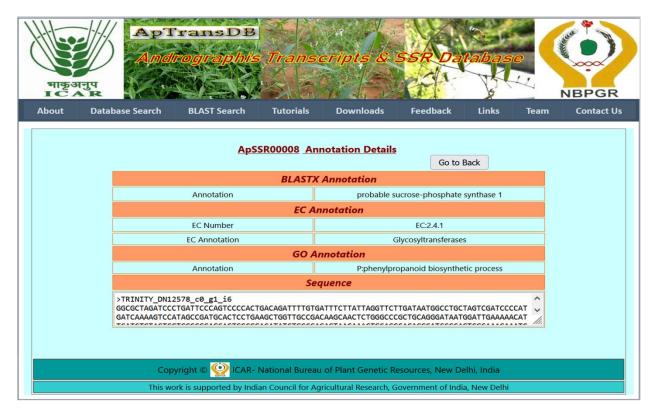
Based on the query search criteria the output is available to the user in real time in terms of 1) Complete SSR details, 2) Best three SSR specific primer pair set along with full primer information and 3) Complete transcript annotation if available.

T	Ana	rographi	s Transo	cripts & s	SSR Data	abase	- and
भाकृ	अनुप		12 FI		CAR	Reci	NBPGR
About	Database Search	BLAST Search	Tutorials	Downloads	Feedback	Links Team	
SRs Se	earch Result :						Go Back
No	ssr_id	SSR Type	Motif	Motif Repeat	SSR Length	Get	Get
1	ApSSR00001	3	GCA	6	18	PrimerDetails	AnnotationDetail
2	ApSSR00002	3	TCC	5	15	PrimerDetails	AnnotationDetail
3 🤇	ApSSR00003	3	AGG	5	15	PrimerDetails	AnnotationDetail
4	ApSSR00004	3	TGC	6	18	PrimerDetails	AnnotationDetail
5	ApSSR00005	3	GAT	5	15	PrimerDetails	AnnotationDetail
6	ApSSR00006	3	CAG	8	24	PrimerDetails	AnnotationDetail
7	ApSSR00008	3	CAG	8	24	PrimerDetail	AnnotationDetail
8	ApSSR00010	3	CAG	8	24	PrimerDetails	AnnotationDetail
9	ApSSR00014	3	TTC	5	15	PrimerDetails	AnnotationDetail
10	ApSSR00016	3	GAA	5	15	PrimerDetails	AnnotationDetail
11	ApSSR00017	3	CCG	7	21	PrimerDetails	AnnotationDetail
12	ApSSR00018	3	GTA	6	18	PrimerDetails	AnnotationDetail
13	ApSSR00019	3	CCG	7	21	PrimerDetails	AnnotationDetail
14	ApSSR00020	3	GTA	6	18	PrimerDetails	AnnotationDetail
15	ApSSR00021	3	CTA	6	18	PrimerDetails	AnnotationDetail
16	ApSSR00022	3	GGC	7	21	PrimerDetails	AnnotationDetail
17	ApSSR00023	3	CGC	7	21	PrimerDetails	AnnotationDetail
18	ApSSR00024	3	CGC	7	21	PrimerDetails	AnnotationDetail
19	ApSSR00025	3	CGG	6	18	PrimerDetails	AnnotationDetail
20	ApSSR00027	3	CGG	6	18	PrimerDetails	AnnotationDetail

"Primer Details" user can access three pairs of SSR specific primers which can be used for the PCR amplification and marker development.

HIB STOT	ransDB rographis Trans	cripts & SSR Databas	NBPGR
About Database Search	BLAST Search Tutorials	Downloads Feedback Links	Team Contact Us
	ApSSR00005	Primer pair Details	
	Prim	er pair-1	
	Forward Primer	AGTTGCACCTTTGAGTTAGAGG	
	Length (bp)	22	
	Tm0C	58.26	
	GC%	45.45	
	Reverse Primer	CTTGCGTATCTTTCCTTCGGC	
	Length (bp)	21	
	Tm0C	59.67	
	GC%	52.38	=
	Product Size (bp)	201	
		er pair-2	
	Forward Primer	AGTTGCACCTTTGAGTTAGAGG	
	Length (bp)	22	
	Tm0C	58.26	
	GC%	45.45	
	Reverse Primer	GCTTGCGTATCTTTCCTTCGG	
	Length (bp)	21	
	Tm0C	59.67	
	GC%	52.38	
	Product Size (bp)	202	
		er pair-3	4
	Forward Primer	AGTTGCACCTTTGAGTTAGAGG	
	Length (bp)	22	-
	Tm0C	58.26	-
	GC%	45.45	-
	Reverse Primer	TTGCGTATCTTTCCTTCGGC	-
	Length (bp) Tm0C	20 58.63	-
	GC%	58.63	-
	Product Size (bp)	200	-
	FIGURE SIZE (DP)	200	

Full annotation information is available to the user about the SSR containing transcripts when user click on "Annotation details"



SSR Generation: From this page user can get all information about SSR data generated.

ApTransDB Andrographis Tr	anscripts & SSR Da	tabase							
Database Search BLAST Search Tu	torials Downloads Feedback	Links Team							
Andrographis paniculata Transcriptome Analysis Summary									
Raw Data used for the genic-SSR mining and primer designing									
De novo meta-transcriptome assembly using our in-house RNA-Seq data of <i>A. paniculata</i> generated through Roche-454 GS-FLX platform (SRA Acc. No. SRR719255), and other publically available RNA-Seq data of the same species and tissue generated through different sequencing platforms including Illumina (SRA Acc. No. SRR1519324, SRR12791806, SRR12791807, SRR1292497), and semiconductor-based technology Ion Torrent (SRA Acc. No. SRR8500525) generates a total of 98,514 non-redundant transcripts. These 98,514 non redundant transcripts further used for the identification of microsatellite markers, their primer pairs, and transcription factors.									
Identification of Microsatellite markers (SS									
Microsatellite marker (SSR) identification has six repeat units for di-nucleotide, and five re- number of bases interrupting two SSRs in a co-	epeat units for tri-, tetra-, penta-, and hex								
Table 1. Summary statistics of the perfect SSF	Rs predicted using the Krait v1.3.3 software								
Item	Description	Number							
Number of perfect SSRs	Counts	39,567							
Total length of perfect SSRs	Bp	682,716							
Average length of perfect SSRs	Total length (bp)/No. of SSRs	17.26							
Number of compound SSRs	Counts	1,497							
Number of imperfect SSRs	Counts	172,453							
Total length of imperfect SSRs	Bp	4,908,517							

Get TF Categories: From this page user can get sequence information for all predicted Transcription Factor categories of *A. paniculata*.

कुअन्	Andro	ansDB ographis	s Transcr	ipts & S	SR Datab	ase		
A	Database Search	BLAST Search	Tutorials	Downloads	Feedback Link			
	Category w	ise Transcripti	on Factor related	Transcripts of	Andrographis pan	iculata		
	AP2 (166)	Get Sequence	ARF (387)	Get Sequence	ARR-B (99)	Get Sequence		
	B3 (778)	Get Sequence	Opening B3.fasta			×P		
	bHLH (2507)	Get Sequence	You have chosen t	You have chosen to open:				
	C3H (887)	Get Sequence	 B3.fasta which is: Fasta File Generic (97.1 KB) from: http://localhost:14867 What should Firefox do with this file? Open with Blast2GO_Launcher (default) Save File Do this <u>a</u>utomatically for files like this from now on. 					
	СРР (133)	Get Sequence						
	E2F/DP (207)	Get Sequence						
	FAR1 (794)	Get Sequence						
	GeBP (210)	Get Sequence						
	HB-other (408)	Get Sequence				9		
	HRT-like (30)	Get Sequence	וושר (שייי)	Oer Jequence	OK	Cancel		
	LFY (4)	Get Sequence	LSD (59)	Get Sequence	MIKC_MADS (371)	Get Sequence		
	M-type_MADS (587)	Get Sequence	MYB (767)	Get Sequence	MYB-Related (1631)	Get Sequence		
	NAC (1723)	Get Sequence	NF-X1 (68)	Get Sequence	NF-YA (232)	Get Sequence		
	NF-YB (183)	Get Sequence	NF-YC (259)	Get Sequence	Nin-like (219)	Get Sequence		
	NZZ/SPL (1)	Get Sequence	RAV (43)	Get Sequence	S1Fa-like (95)	Get Sequence		
	SAP (3)	Get Sequence	SBP (178)	Get Sequence	SRS (73)	Get Sequence		
	STAT (162)	Get Sequence	TALE (207)	Get Sequence	TCP (300)	Get Sequence		
	Trihelix (450)	Get Sequence	VOZ (36)	Get Sequence	Whirly (28)	Get Sequence		
	WOX (84)	Get Sequence	WRKY (970)	Get Sequence	YABBY (145)	Get Sequence		
	ZF-HD (97)	Get Sequence						
		- Alleria			ources, New Delhi, Indi Government of India, I			

Get GO Categories: From this page user can get sequence information of all the transcripts belongs to major three GO categories: Biological Process, Molecular Function, and Cellular Component.

			NI
Database Search BLAST Search	Tutorials	Downloads Feedback Links	Team
Cellu	ar Component	Related Categories	
Cellular Anatomical Entity (306)		Chloroplast (24) Chloroplast Stroma (12)	GO:0009507 GO:0009570
Chloroplast Envelope (65) Cytoplasm (171)	GO:0009941 GO:0005737	Cytoskeleton (18)	GO:0009370 GO:0005856
Cytosol (26)	GO:0005829	Endoplasmic Reticulum (139)	<u>GO:0005783</u>
Endoplasmic Reticulum Membrane (52)	0 1 61	la companya ang ang ang ang ang ang ang ang ang an	
Extracellular Space (19)	Opening Chlorop	last.tasta	×
Integral Component of Membrane (1505)	You have chose	to open:	
Intracellular Membrane-bounded Organelle Intrinsic Component of Membrane (20)	Tou nave chose	n to open.	
Membrane (2064)	Chloropla	st.fasta	
Mitochondrion (102)	which is: F	asta File Generic (264 KB)	
Nucleus (365)		://localhost:14867	
Plasmodesma (12)			
Plastid Outer Membrane (22) Ribosome (38)			
Vacuolar Membrane (5)	What should Fi	refox do with this file?	
Biol	Open with	Blast2GO_Launcher (default)	~
Biological Regulation (39)	● <u>S</u> ave File		
Carbohydrate Metabolic Process (853)	© <u>B</u> ave The		
Cellular Metabolic Process (107)	Do this a	utomatically for files like this from now on.	
Defense Response (469)			
DNA Metabolic Process (238)			
DNA Replication (173)		ОК	Cancel
Ion Transport (98) Lipid Metabolic Process (337)	GO:0006629	Lipid Transport (174)	GO:0006869
Macromolecule Metabolic Process (213)	GO:0043170	Metabolic Process (376)	GO:0008152
Methylation (301)	GO:0032259	Phosphate ion Transport (364)	GO:0006817
Phosphorylation (1063)	<u>GO:0016310</u>	Photosynthesis (112)	<u>GO:0015979</u>
Protein Folding (291)	<u>GO:0006457</u>	Protein Glycosylation (233)	<u>GO:0006486</u>
Protein Phosphorylation (2057) Protectives (914)	<u>GO:0006468</u>	Protein Transport (353) Pegulation of Cellular Process (65)	<u>GO:0015031</u>
Proteolysis (914)	<u>GO:0006508</u>	Regulation of Cellular Process (65)	<u>GO:0050794</u>
	<u>GO:0006508</u>		
Proteolysis (914) Regulation of DNA-templ Transcription (261	GO:0006508 9) GO:0006355	Regulation of Cellular Process (65) Regulation of Gene Expression (91)	GO:0050794 GO:0010468
Proteolysis (914) Regulation of DNA-templ Transcription (261 Response to Auxin (123) Response to Stress (185) RNA Modification (267)	GO:0006508 9) GO:0006355 GO:0009733 GO:0006950 GO:0009451	Regulation of Cellular Process (65) Regulation of Gene Expression (91) Response to Stimulus (139) Response to Wounding (124) RNA Processing (136)	GO:0050794 GO:0010468 GO:0050896 GO:0009611 GO:0006396
Proteolysis (914) Regulation of DNA-templ Transcription (261 Response to Auxin (123) Response to Stress (185) RNA Modification (267) RNA Splicing (32)	GO:0006508 GO:0006355 GO:0009733 GO:0009736 GO:0009451 GO:0008380	Regulation of Cellular Process (65) Regulation of Gene Expression (91) Response to Stimulus (139) Response to Wounding (124) RNA Processing (136) Signal Transduction (168)	GO:0050794 GO:0010468 GO:0050896 GO:0009611 GO:0006396 GO:0007165
Proteolysis (914) Regulation of DNA-templ Transcription (261 Response to Auxin (123) Response to Stress (185) RNA Modification (267) RNA Splicing (32) Translation (853)	GO:0006508 GO:0006355 GO:0009733 GO:0009451 GO:0009451 GO:0008380 GO:0006412	Regulation of Cellular Process (65) Regulation of Gene Expression (91) Response to Stimulus (139) Response to Wounding (124) RNA Processing (136) Signal Transduction (168) Transmembrane Transport (668)	GC:0050794 GC:0010468 GC:0050896 GC:0009611 GC:0006396 GC:0007165 GC:0055085
Proteolysis (914) Regulation of DNA-templ Transcription (261 Response to Auxin (123) Response to Stress (185) RNA Modification (267) RNA Splicing (32) Translation (853) Transport (182)	GO:0006508 GO:0006355 GO:0009733 GO:000950 GO:0009451 GO:0008380 GO:0006412 GO:0006810	Regulation of Cellular Process (65) Regulation of Gene Expression (91) Response to Stimulus (139) Response to Wounding (124) RNA Processing (136) Signal Transduction (168) Transmembrane Transport (668) Vacuolar Transport (25)	GO:0050794 GO:0010468 GO:0050896 GO:0009611 GO:0006396 GO:0007165
Proteolysis (914) Regulation of DNA-templ Transcription (261 Response to Auxin (123) Response to Stress (185) RNA Modification (267) RNA Splicing (32) Translation (853) Transport (182) Mole	GO:0006508 GO:000355 GO:0009733 GO:000950 GO:0009451 GO:000810 GO:0006112 GO:000610 cultar Function	Regulation of Cellular Process (65) Regulation of Gene Expression (91) Response to Stimulus (139) Response to Wounding (124) RNA Processing (136) Signal Transduction (168) Transmembrane Transport (668) Vacuolar Transport (25) Related Categories	GO:0050794 GO:0010468 GO:0009611 GO:0007165 GO:0007165 GO:0007165 GO:0007034
Proteolysis (914) Regulation of DNA-templ Transcription (261 Response to Auxin (123) Response to Stress (185) RNA Modification (267) RNA Splicing (32) Translation (853) Transport (182) Mole Acetyltransferase Activity (45)	GO:0006508 9) GO:0006355 GO:0009733 GO:0009451 GO:0008380 GO:0006412 GO:0006810 cutar Function	Regulation of Cellular Process (65) Regulation of Gene Expression (91) Response to Stimulus (139) Response to Wounding (124) RNA Processing (136) Signal Transduction (168) Transmembrane Transport (668) Vacuolar Transport (25) Related Categories Actin Binding (33)	GC:0050794 GC:0010468 GC:0000936 GC:00006396 GC:0007165 GC:0007034
Proteolysis (914) Regulation of DNA-templ Transcription (261 Response to Auxin (123) Response to Stress (185) RNA Modification (267) RNA Splicing (32) Translation (853) Transport (182) Mole	GO:0006508 GO:000355 GO:0009733 GO:000950 GO:0009451 GO:000810 GO:0006112 GO:000610 cultar Function	Regulation of Cellular Process (65) Regulation of Gene Expression (91) Response to Stimulus (139) Response to Wounding (124) RNA Processing (136) Signal Transduction (168) Transmembrane Transport (668) Vacuolar Transport (25) Related Categories	GO:0050794 GO:0010468 GO:0009611 GO:0007165 GO:0007165 GO:0007165 GO:0007034
Proteolysis (914) Regulation of DNA-templ Transcription (261 Response to Auxin (123) Response to Stress (185) RNA Modification (267) RNA Splicing (32) Translation (853) Transport (182) Mole Acetyltransferase Activity (45) ADP Binding (13)	GO:0006508 GO:0006355 GO:0009733 GO:000950 GO:0009451 GO:0006810 CUITER GO:006810 CUITER GO:0016407 GO:0043531	Regulation of Cellular Process (65) Regulation of Gene Expression (91) Response to Stimulus (139) Response to Wounding (124) RNA Processing (136) Signal Transduction (168) Transmembrane Transport (668) Vacuolar Transport (25) Related Categories Actin Binding (33) ATP Binding (201)	GC:0050794 GC:0010468 GC:0009611 GC:0009715 GC:0007165 GC:0007034
Proteolysis (914) Regulation of DNA-templ Transcription (261 Response to Auxin (123) Response to Stress (185) RNA Modification (267) RNA Splicing (32) Translation (853) Transport (182) Mole Acetyltransferase Activity (45) ADP Binding (13) Binding (677) Calmodulin Binding (84) Chromatin Binding (26)	GO:0006508 GO:000355 GO:0009733 GO:000973 GO:000951 GO:0008380 GO:0006412 GO:0006413 GO:0016407 GO:0016407 GO:0016403 GO:0016407 GO:0016407 GO:0016407 GO:0016407 GO:0016407 GO:0016407 GO:0016407 GO:0016407 GO:0016407	Regulation of Cellular Process (65) Regulation of Gene Expression (91) Response to Stimulus (139) Response to Wounding (124) RNA Processing (136) Signal Transduction (168) Transmembrane Transport (668) Vacuolar Transport (25) Related Categories Actin Binding (33) ATP Binding (201) Calcium Ion Binding (114) Catalytic Activity (264) Copper Ion Binding (54)	GC:0050794 GC:0010468 GC:0009611 GC:0009611 GC:0007165 GC:000734 GC:000734 GC:000734 GC:00055085 GC:00055085 GC:0005502 GC:0005524 GC:0005502 GC:0005502
Proteolysis (914) Regulation of DNA-templ Transcription (261 Response to Atxin (123) Response to Stress (185) RNA Modification (267) RNA Splicing (32) Translation (853) Transport (182) Mole Acetyltransferase Activity (45) ADP Binding (13) Binding (677) Calmodulin Binding (84) Chromatin Binding (26) DNA Binding (633)	GO:0006508 GO:0006355 GO:0009451 GO:0009451 GO:0009451 GO:0009451 GO:0006810 GO:0006810 GO:0016402	Regulation of Cellular Process (65) Regulation of Gene Expression (91) Response to Stimulus (139) Response to Wounding (124) RNA Processing (136) Signal Transduction (168) Transmembrane Transport (668) Vacuolar Transport (25) Related Categories Actin Binding (33) ATP Binding (201) Calcium Ion Binding (114) Catalytic Activity (264) Copper Ion Binding (54) Glycosyltransferase Activity (245)	GC:0050794 GC:0010468 GC:0009611 GC:0007165 GC:0007165 GC:0007164 GC:0007165 GC:0007034 GC:0003779 GC:0005508 GC:0003779 GC:0003779 GC:0005508 GC:0005507 GC:0005507 GC:0005507 GC:0005507 GC:0005507 GC:0005507
Proteolysis (914) Regulation of DNA-templ Transcription (261 Response to Atwin (123) Response to Stress (185) RNA Modification (267) RNA Splicing (32) Translation (853) Transport (182) Mole Acetyltransferase Activity (45) ADP Binding (13) Binding (677) Calmodulin Binding (84) Chromatin Binding (26) DNA Binding (633) GTPase Activity (114)	GO:0006508 GO:0009733 GO:0009451 GO:0009451 GO:0004810 GO:0006810 CUIDE CUIDE GO:0016407 GO:0016407 GO:0016407 GO:0016407 GO:0005516 GO:0005516 GO:0003682 GO:0003677 GO:0003924	Regulation of Cellular Process (65) Regulation of Gene Expression (91) Response to Stimulus (139) Response to Wounding (124) RNA Processing (136) Signal Transduction (168) Transmembrane Transport (668) Vacuolar Transport (25) Related Categories Actin Binding (33) ATP Binding (201) Catalytic Activity (264) Copper Ion Binding (54) Glycosyltransferase Activity (245) Helicase Activity (38)	GC:0050794 GC:0010468 GC:0009611 GC:0007165 GC:0007164 GC:0007165 GC:0007034 GC:0003779 GC:0005509 GC:0003824 GC:0005507 GC:0005507 GC:0005507 GC:0005507
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11	TRINITY_DN4817_c0_g1_i2	MF	<u>GO:0000166</u>	nucleotide binding	>TRINITY_DN4817 TCCAATCGAATTTAA	_c0_g1_i2 ГААССТАСАА
12	TRINITY_DN4847_c0_g2_i5	MF	<u>GO:0000166</u>	nucleotide binding	>TRINITY_DN4847 GAACAAATATCCCAA	_c0_g2_i5
13	TRINITY_DN1980_c0_g1_i1	MF	<u>GO:0000166</u>	nucleotide binding	>TRINITY_DN1980 ATTAAAGCTGAATTC	_c0_g1_i1 TTGAATTCTT
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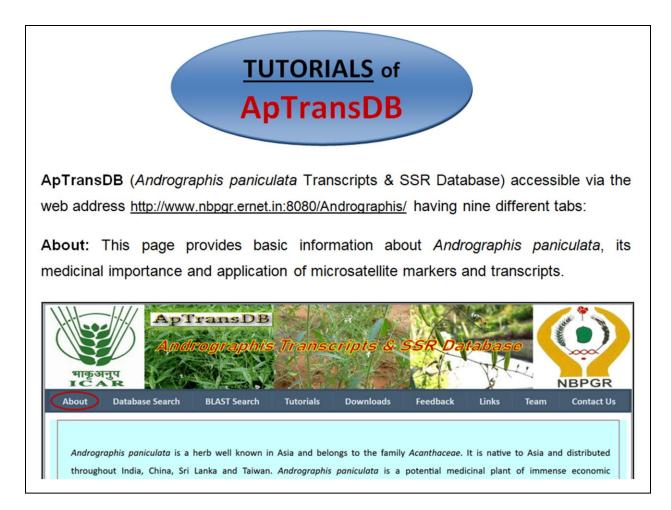
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1	gb GBSY01020847.1	XP_030527543.1	916.376	0	ABC transporter D family member 1 isoform X1	>gb GBSY01020847 CCCTTTTCTCTGCTTC		
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4	TRINITY_contig212	RDX69181.1	214.157	3.82593E-66	ABC transporter C family member 3, partial	>TRINITY_contig212 CTGTGGTTTCCCTGATCAAACTAGAA6		
5	TRINITY_DN17621_c3_g1_i1	KAB1226067.1	98.5969	5.39737E-24	ABC transporter G family member 11	>TRINITY_DN17621_c3_g1_i1 GACATTAATGTCATAAAAGATGAAACA		
6	TRINITY_DN17698_c0_g1_i1	XP_010255510.1	375.555	1.44738E-119	PREDICTED: ABC transporter B family member 15-like	>TRINITY_DN17698_c0_g1_i1 TTCTCCTTTATTGAGGTAGCAAAGAGG		
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8	TRINITY_DN7677_c0_g2_i1	OIT33011.1	64.3142	1.85908E-09	abc transporter c family member 2	>TRINITY_DN7677_ GATTAGATGGACTTTG		
9	TRINITY_DN7634_c0_g1_i1	KZV30091.1	1836.62	0	ABC transporter B family member 8	>TRINITY_DN7634_c0_g1_i1 ATGTATGCATGCTATTGTATCATCAT		
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11	TRINITY_DN22266_c0_g1_i2	XP_016432474.1	451.44	9.49036E-148	PREDICTED: ABC transporter G family member 31-like, partial	>TRINITY_DN22266_c0_g1_i2 GGCTATATCGAAGGAGACATAAAGAT		
12	TRINITY_DN2601_c1_g3_i6	OIT33011.1	69.707	6.51415E-11	abc transporter c family member 2	>TRINITY_DN2601_c1_g3_i6 TCTAATTTCTTATATGGTATCAGAGC		
13	TRINITY_DN2609_c0_g1_i2	XP_016504404.1	1948.71	0	PREDICTED: putative ABC transporter C family member 15 isoform X2	>TRINITY_DN2609_ AAAAAAAAAAAAAAAAAAA		
14	TRINITY_DN2609_c0_g1_i6	XP_016504404.1	384.8	5.62977E-121	PREDICTED: putative ABC transporter C family member 15 isoform X2	>TRINITY_DN2609_c0_g1_i6		
15	TRINITY_DN2672_c0_g2_i1	XP_013450956.2	1919.82	0	ABC transporter B family member 19	>TRINITY_DN2672_ CTCCTACCGTACCTGC		
16	TRINITY_DN2672_c0_g2_i2	XP_013450956.2	2044.63	0	ABC transporter B family member 19	>TRINITY_DN2672_ CTCCTACCGTACCTGC		
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19	TRINITY_DN2672_c2_g1_i23	XP_030547308.1	1100.12	0	ABC transporter B family member 9-like isoform X3	>TRINITY_DN2672_ TAAAATTTGCTCGACT	c2_g1_i23 CATTCTGTTAA	
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