DEPARTMENT OF BOTANY
UNIVERSITY OF RAJASTHAN
J.L.N. Marg, Jaipur-302004
(Rajasthan)

Bot/25/46

Date
16/1/2025

Notice

Quotations are invited in the sealed envelope for the following items (custom synthesis of primers/oligonucleotides) under SERB-sponsored research project sanctioned to Dr. Chandra Pal Singh (SUR/2022/003056) entitled "Characterization of novel drought-tolerant genes from *Prosopis cineraria*, a prominent drought-tolerant plant", in the Department of Botany, University of Rajasthan, Jaipur. Please submit the quotations within seven days in the office (from the date of this notice) of the Department of Botany. This purchase is of below 1 lakh including taxes.

List of Primers/oligonucleotides:

S.No.	Name of primer	Sequence (5' – 3')	No. of nucleotides	Synthesis scale	Quantit
1.	DsS-miR5150-F	5' GCGGAGC TTC TGA CAG CTG CAG 3'	22	25 nmol	1
2.	DsS-miR5150-SL	5' GTCGTATCCAGTGCAGGGTCCGAGGTATTCG CACTGGATACGACGAG AAA 3'	50	25 nmol	1
3.	Ds-miR5144-F	5' GCGGTGC TGC TGA AGA GAC TCA 3'	22	25 nmol	1
4.	Ds-miR5144-SL	5' GTCGTATCCAGTGCAGGGTCCGAGGTATTCG CACTGGATACGAC GGT CGG 3'	50	25 nmol	1
5.	Ds-miR166c-F	5' GCGGCGGTCG GAC CAG GCT TCA T 3'	23	25 nmol	1
6.	Ds-miR166c-SL	5' GTCGTATCCAGTGCAGGGTCCGAGGTATTCG CACTGGATACGAC AAA AGA 3'	50	25 nmol	1
7.	Ds-miR5800-F	5' GCGGCGGCCC GGC TAT CGG AAC 3'	22	25 nmol	1
8.	Ds-miR5800-SL	5' GTCGTATCCAGTGCAGGGTCCGAGGTATTCG CACTGGATACGAC GCA GCC 3'	50	25 nmol	1
9.	Ds-miR2878-F	5' GCG TCT TTA CAT GTA TAA AAT T 3'	22	25 nmol	1
10.	Ds-miR2878 -SL	5' GTCGTATCCAGTGCAGGGTCCGAGGTATTCG CACTGGATACGAC TCT CAG 3'	50	25 nmol	1
11.	Ds-miR159c-F	5' GCGG TTT GGA TTG AAG GGA GCT 3'	22	25 nmol	1

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12.	**Ds-miR159c-SL**	5' GTCGTATCCAGTGCAGGGTCCGAGGTATTCG CACTGGATACGAC AAA ATG 3'	50	25 nmol	1
13.	**Ds-miR159b-F**	5' GCGGCGGTTT GGA TTG AAG GGA 3'	22	25 nmol	1
14.	**Ds-miR159b-SL**	5' GTCGTATCCAGTGCAGGGTCCGAGGTATTCG CACTGGATACGAC GAA AGC 3'	50	25 nmol	1
15.	**Ds-miR5793-F**	5' GCGGCGGCGA GGA CGA GAT ACA 3'	22	25 nmol	1
16.	**Ds-miR5793-SL**	5' GTCGTATCCAGTGCAGGGTCCGAGGTATTCG CACTGGATACGAC CTG CAC 3'	50	25 nmol	1
17.	**Ds-miR5516b-F**	5' GCGGCGGCTC ATT GCT TCG GTA 3'	22	25 nmol	1
18.	**Ds-miR5516b-SL**	5' GTCGTATCCAGTGCAGGGTCCGAGGTATTCG CACTGGATACGAC CCA GCC 3'	50	25 nmol	1
19.	**DsS-miR5506-F**	5' GCGGCGGCGT GAC TGA ACC CTA 3'	22	25 nmol	1
20.	**DsS-miR5506-SL**	5' GTCGTATCCAGTGCAGGGTCCGAGGTATTCG CACTGGATACGAC CAC TCC 3'	50	25 nmol	1
21.	**Ds-miR159a-F**	5' GCGGTTT GGA TTG AAG GGA GCT 3'	22	25 nmol	1
22.	**Ds-miR159a-SL**	5' GTCGTATCCAGTGCAGGGTCCGAGGTATTCG CACTGGATACGAC AAA AAG 3'	50	25 nmol	1
23.	**Ds-miR5800-F**	5' GCGGCGGCCC GGC TAT CGG AAC 3'	22	25 nmol	1
24.	**Ds-miR5800-SL**	5' GTCGTATCCAGTGCAGGGTCCGAGGTATTCG CACTGGATACGAC GCA GCC 3'	50	25 nmol	1
25.	**Ds-miR2876-F**	5' GCGTTC CTA TAT GAA CAC TGT T 3'	22	25 nmol	1
26.	**Ds-miR2876-SL**	5' GTCGTATCCAGTGCAGGGTCCGAGGTATTCG CACTGGATACGAC GCT GGC 3'	50	25 nmol	1
27.	**DsT-miR5150-F**	5' GCGGGCT TCT GAC AGC TGC AGT 3'	22	25 nmol	1
28.	**DsT-miR5150-SL**	5' GTCGTATCCAGTGCAGGGTCCGAGGTATTCG CACTGGATACGAC AGA GAA 3'	50	25 nmol	1
29.	**DsT-miR5506-F**	5' GCGGCGG TGG ATC GCT TCG TCT 3'	22	25 nmol	1
30.	**DsT-miR5506-SL**	5' GTCGTATCCAGTGCAGGGTCCGAGGTATTCG CACTGGATACGAC ACC ATC 3'	50	25 nmol	1
31.	**YS-HSP70-F**	5' ACG TGG ATG CCA ACG GTA TT 3'	20	25 nmol	1
32.	**YS_HSP70-R**	5' CCA CCA TTC GCT CGA CTT CT 3'	20	25 nmol	1
33.	**YS_SOD2-F**	5' GGC CAC ATC AAC CAC TCC AT 3'	20	25 nmol	1

34.	**YS_SOD2-R**	5' TCT CAA AGC TGC CCC ATT GT 3'	20	25 nmol	1
35.	**YS_PSY-F**	CCTTATGACCATGCCCGTCA	20	25 nmol	1
36.	**YS_PSY-R**	GATGTCCTCGCCCACATCTC	20	25 nmol	1
37.	**YS_GPx-F**	5' CAG CCA CAC CAC AAA CAA CC 3'	20	25 nmol	1
38.	**YS_GPx-R**	5' TAA AGC TGC CTT CTT GCC GT 3'	20	25 nmol	1
39.	**YS_GST-F**	5' GAG GCA CCA CAT CTC AGG AC 3'	20	25 nmol	1
40.	**YS_GST-R**	5' ACT TCA TTC GCT CAT CCG CA 3'	20	25 nmol	1
41.	**YS_RubiscoA-F**	5' GAG CTG CCC AAG ATC AAG GT 3'	20	25 nmol	1
42.	**YS_RubiscoA-R**	5' ATT GCC AGA CTC CAG CTC AC 3'	20	25 nmol	1
43.	**YS_GlyHyd-F**	5' CAC AAC ACC CCG CTC TAC TT 3'	20	25 nmol	1
44.	**YS_GlyHyd-R**	5' AGC ACA TTG GGT GCG TAG AA 3'	20	25 nmol	1
45.	**YS_GGPPS-F**	5' GCC CAG GAT CTC AGT GGT TT 3'	20	25 nmol	1
46.	**YS_GGPPS-R**	5' GAC GAT GTG ACC GTG GAG AA 3'	20	25 nmol	1
47.	**YS_Rubisco-F**	5' GGA GCA CAT CTT GCC CTT CT 3'	20	25 nmol	1
48.	**YS_Rubisco-R**	5' CAG GCT GCT CAT GTG TTT GT 3'	20	25 nmol	1
49.	**YS_GPDH-F**	5' TCT GGT GGA TTC AGG GAG GT 3'	20	25 nmol	1
50.	**YS_GPDH-R**	5' TGG AAC ATG TCA AAG CCC CT 3'	21	25 nmol	1
51.	**YS_BCH-F**	5' AGC AAG ATT TCA CTC CCT CCA 3'	20	25 nmol	1
52.	**YS_BCH-R**	5' TGC AAT TCG TTT GCG TCT GG 3'	20	25 nmol	1
53.	**YS_DGAT-F**	5' CAA GAG AGT GGG AGG GAG GA 3'	20	25 nmol	1
54.	**YS_DGAT-R**	5' TGC TGC TTT TCA GCA CAT CG 3'	20	25 nmol	1
55.	**YS_HSP90C-F**	5' GAT GGT TTG TGG AGG TTG CC 3'	20	25 nmol	1
56.	**YS_HSP90C-R**	5' GGG TAT GGG AAG GAC GAA GC 3'	20	25 nmol	1
57.	**YS_LYCB-F**	5' CCT GTG TGT TAC GTT GAG GC 3'	20	25 nmol	1
58.	**YS_LYCB-R**	5' TAC AGG TCA CTG CTT GCG TT 3'	20	25 nmol	1
59.	**YS_PDS-F**	5' GTT CTG CAT CCT TGC TCC CT 3'	20	25 nmol	1
60.	**YS_PDS-R**	5' GCA ACC TCT TGC AGA TTG GC 3'	20	25 nmol	1
61.	**YS_LCYE-F**	5' TCT GGT TTG CCT TCC TGA CC 3'	20	25 nmol	1
62.	**YS-LCYE-R**	5' TGC TTG GAT TGC TGG GAC TT 3'	20	25 nmol	1
63.	**Sb-miR159a-SL**	5' GTCGTATCCAGTGCAGGGTCCGAGGTATTCG CACTGGATACGACCAGAGC 3'	50	25 nmol	1
64.	**Sb-miR159a-F**	5' GCGGCGG TTTGGATTGAAGGGA 3'	22	25 nmol	1
65.	**Sb-miR159b-SL**	5' GTCGTATCCAGTGCAGGGTCCGAGGTATTCG CACTGGATACGACGGGAGC 3'	50	25 nmol	1
66.	**Sb-miR159b-F**	5' GCGGCGG CTTGGATTGAAGGGA 3'	22	25 nmol	1
67.	**Sb-miR159c-SL**	5' GTCGTATCCAGTGCAGGGTCCGAGGTATTCG CACTGGATACGACAAGAGC 3'	50	25 nmol	1
68.	**Sb-miR159c-F**	5' GCGGCGG TTTGGATTGAAGGGA 3'	22	25 nmol	1
69.	**Sb-miR160c-SL**	5' GTCGTATCCAGTGCAGGGTCCGAGGTATTCG CACTGGATACGACTGGCAT 3'	50	25 nmol	1
70.	**Sb-miR160c-F**	5' GCGGCGG TGCCTGGCTCCCTGT 3'	22	25 nmol	1
71.	**Sb-miR166c-SL**	5' GTCGTATCCAGTGCAGGGTCCGAGGTATTCG CACTGGATACGACGGGGAA 3'	50	25 nmol	1
72.	**Sb-miR166c-F**	5' GCGGCGG TCGGACCAGGCTTCA 3'	22	25 nmol	1

73.	**Sb-miR169m-SL**	5' GTCGTATCCAGTGCAGGGTCCGAGGTATTCG CACTGGATACGACTAGGCA 3'	50	25 nmol	1
74.	**Sb-miR169m-F**	5' GCGGCGG TAGCCAAGGATGACT 3'	22	25 nmol	1
75.	**Sb-miR171h-SL**	5' GTCGTATCCAGTGCAGGGTCCGAGGTATTCG CACTGGATACGACGATATT 3'	50	25 nmol	1
76.	**Sb-miR171h-F**	5' GCGGCGG GGATTGAGCCGCGTC 3'	22	25 nmol	1
77.	**Sb-miR396a-SL**	5' GTCGTATCCAGTGCAGGGTCCGAGGTATTCG CACTGGATACGACCAGTTC 3'	50	25 nmol	1
78.	**Sb-miR396a-F**	5' GCGGCGG TTCCACAGCTTTCTT 3'	22	25 nmol	1
79.	**Sb-miR396b-SL**	5' GTCGTATCCAGTGCAGGGTCCGAGGTATTCG CACTGGATACGACCAGTTC 3'	50	25 nmol	1
80.	**Sb-miR396b-F**	5' GCGGCGG TCCACAGGCTTTCTT 3'	22	25 nmol	1
81.	**Sb-miR408-SL**	5' GTCGTATCCAGTGCAGGGTCCGAGGTATTCG CACTGGATACGACGCCAGG 3'	50	25 nmol	1
82.	**Sb-miR408-F**	5' GCGGCGG CTGCACTGCCTCTTC 3'	22	25 nmol	1
83.	**Sb-miR1432-SL**	5' GTCGTATCCAGTGCAGGGTCCGAGGTATTCG CACTGGATACGACGTCGGT 3'	50	25 nmol	1
84.	**Sb-miR1432-F**	5' GCGGCGG CTCAGGAGAGATGAC 3'	23	25 nmol	1
85.	**Sb-miR1863b-SL**	5' GTCGTATCCAGTGCAGGGTCCGAGGTATTCG CACTGGATACGACAGTAAT 3'	50	25 nmol	1
86.	**Sb-miR1863b-F**	5' GCGGCGG AGAGACTTGGCTGATGC 3'	24	25 nmol	1
87.	**Sb-miR2863c-SL**	5' GTCGTATCCAGTGCAGGGTCCGAGGTATTCG CACTGGATACGACTTTGGC 3'	50	25 nmol	1
88.	**Sb-miR2863c-F**	5' GCGGCGG TTAGTAGGACTAGAATGG 3'	25	25 nmol	1
89.	**Sb-miR2876-SL**	5' GTCGTATCCAGTGCAGGGTCCGAGGTATTCG CACTGGATACGACGCAACA 3'	50	25 nmol	1
90.	**Sb-miR2876-F**	5' GCGGCGG TTCCTATATGAACAC 3'	22	25 nmol	1
91.	**Sb-miR156g-SL**	5' GTCGTATCCAGTGCAGGGTCCGAGGTATTCG CACTGGATACGACGTGCTC 3'	50	25 nmol	1
92.	**Sb-miR156g-F**	5' GCGGCGG TGACAGAAGAGAGT 3'	21	25 nmol	1
93.	**Sb-miR3634-SL**	5' GTCGTATCCAGTGCAGGGTCCGAGGTATTCG CACTGGATACGACACGGCA 3'	50	25 nmol	1
94.	**Sb-miR3634-F**	5' GCGGCGG TTTCCGACTCGCACTCA 3'	24	25 nmol	1
95.	**Sb-miR5144-SL**	5' GTCGTATCCAGTGCAGGGTCCGAGGTATTCG CACTGGATACGACGTCTCT 3'	50	25 nmol	1
96.	**Sb-miR5144-F**	5' GCGGCGG TTCTTGTGCTGCTGA 3'	22	25 nmol	1
97.	**Sbi-miR5490-SL**	5' GTCGTATCCAGTGCAGGGTCCGAGGTATTCG CACTGGATACGACCCGTCC 3'	50	25 nmol	1
98.	**Sb-miR5490-F**	5' GCGGCGG TTGGATTTTTATTTA 3'	22	25 nmol	1
99.	**Sb-miR3639-SL**	5' GTCGTATCCAGTGCAGGGTCCGAGGTATTCG CACTGGATACGACGCTTTT 3'	50	25 nmol	1

100	Sb-miR3639-F	5' GCGGCGG ATTGACTTCTGAAAGGCT 3'	25	25 nmol	1
101	Pc_CDS17888_F	5' AAGCTGAAGCTGAAGCTGAGG 3'	21	25 nmol	1
102	Pc_CDS17888_R	5' GCTGATTACTAGCAACTCCATCAA 3'	24	25 nmol	1
103	Pc_CDS_16735_F	5' GAGCTTCGGCAAGGGTTAGT 3'	20	25 nmol	1
104	Pc_CDS_16735_R	5' AATTCCTCCTCGCACTGCTC 3'	20	25 nmol	1
105	Pc_CDS_22043_F	5' GCTCGTCCTCATCTCAAGCA 3'	20	25 nmol	1
106	Pc_CDS_22043_R	5' TGTCCAAGGGAACACGACAG 3'	20	25 nmol	1
107	Pc_CDS_5394_F	5' TCGGTCCTTTCCTTGCAGTC 3'	20	25 nmol	1
108	Pc_CDS_5394_R	5' GTAAGAGCTTGAGCCAGCCA 3'	20	25 nmol	1
109	Pc_CDS_34275_F	5' ATCGATGGCGCAAGTATGGA 3'	20	25 nmol	1
110	Pc_CDS_34275_R	5' CAGCTCCACTCAGCATAGCA 3'	20	25 nmol	1
111	PC_TIFY 10b_F	5' GCGGACAAGTTGTGGTGTTC 3'	20	25 nmol	1
112	PC_TIFY 10b_R	5' GAAACGAAGGCTGGCTCTGA 3'	20	25 nmol	1
113	PC_CBP-CP1_F	5' AGCCACCGGGATTTGAAGAG 3'	20	25 nmol	1
114	PC_CBP-CP1_R	5' CAAGCCTTCGAATGTGACGC 3'	20	25 nmol	1
115	PC_LC12.93_F	5' CGGTGAAGGTTGGAGCTGT 3'	19	25 nmol	1
116	PC_LC12.93_R	5' GAGCATTCATGGCGACACAC 3'	20	25 nmol	1
117	PC_LC12.40_F	5' GGTCTACATTGCGGTGCATT 3'	20	25 nmol	1
118	PC_LC12.40_R	5' CAGCTAGCCGTGTATGCTGA 3'	20	25 nmol	1
119	PC_LC12.74_F	5' AGCAATCCCTTCCCTTGTGA 3'	20	25 nmol	1
120	PC_LC12.74_R	5' TGATAACGCTCCCCTCGTAGA 3'	21	25 nmol	1
121	PC_AOXCCG1_F	5' ATGCCCACAGTGTCGTCAAG 3'	20	25 nmol	1
122	PC_AOXCCG1_R	5' CTCAGGCTAAGTCACGAGGC 3'	20	25 nmol	1
123	PC_LC12.27_F	5' GTCATTCGAAAGCACTGATGC 3'	21	25 nmol	1
124	PC_LC12.27_R	5' GCAACACGCACACATCTCG 3'	19	25 nmol	1
125	PC_60SRPL10_F	5'AAGATGCTTTCCACCTGCGA 3'	20	25 nmol	1
126	PC_60SRPL10_R	5'CAGTGGCTTCCCAAAAGCAC 3'	20	25 nmol	1
127	PC_HLNMA3_F	5' TTTTCGTGACCAAGGTTGCC 3'	20	25 nmol	1
128	PC_HLNMA3_R	5' CAGCATCACCATGATTCTTTGCT 3'	23	25 nmol	1
129	PC_KTI1_F	5' ACTGTCTCCGCAGAGGTG 3'	18	25 nmol	1
130	PC_KTI1_R	5' AGGATCTTCCTGGTTAAATATGGC 3'	24	25 nmol	1
131	PC_HSP-CH_F	5' GCCTGGTCTTTCCAAGGAGG 3'	20	25 nmol	1
132	PC_HSP-CH_R	5' GCTGGAGGCGAGTATCGTAG 3'	20	25 nmol	1
133	YS_N_HS134-F	5' GCGGCGGAAG CGG TGG GTG CA 3'	21	25 nmol	1
134	YS_N_HS134-SL	5' GTCGTATCCAGTGCAGGGTCCGAGGTATTCG CACTGGATACGACAAG CCC 3'	50	25 nmol	1
135	YS_N_HS1240-F	5' GCGGCGCAT GTG TGC ATA TGC T 3'	22	25 nmol	1
136	YS_N_HS1240-SL	5' GTCGTATCCAGTGCAGGGTCCGAGGTATTCG CACTGGATACGACGCC ACA 3'	50	25 nmol	1
137	YS_N_C704-F	5' GCGGCGTGA GAC GCT CAT GAG C 3'	22	25 nmol	1

138	**YS_N_C704-SL**	5' GTCGTATCCAGTGCAGGGTCCGAGGTATTCG CACTGGATACGACTGT CAT 3'	50	25 nmol	1
139	**YS_N_C687-F**	5' GCGGCGTGT GCA CTG TGG CAC T 3'	22	25 nmol	1
140	**YS_N_C687-SL**	5' GTCGTATCCAGTGCAGGGTCCGAGGTATTCG CACTGGATACGACGTG CAC 3'	50	25 nmol	1
141	**YS_N_HS2550-F**	5' GCGGCGGACG GGT TGC GAG AG 3'	21	25 nmol	1
142	**YS_N_HS2550-SL**	5' GTCGTATCCAGTGCAGGGTCCGAGGTATTCG CACTGGATACGACGCC GCA 3'	50	25 nmol	1
143	**YS_N_HT930-F**	5' GCGGCGTCA ATC TGC ATT GGG C 3'	22	25 nmol	1
144	**YS_N_HT930-SL**	5' GTCGTATCCAGTGCAGGGTCCGAGGTATTCG CACTGGATACGACGAT GGA 3'	50	25 nmol	1
145	**YS_N_HT339-F**	5' GCGGCGGCCA ATG GAT ACT TCT 3'	22	25 nmol	1
146	**YS_N_HT339-SL**	5' GTCGTATCCAGTGCAGGGTCCGAGGTATTCG CACTGGATACGACCGG CTC 3'	50	25 nmol	1
147	**YS_N_HT412-F**	5' GCGGATG AGA CCA ACC GCA AGG 3'	22	25 nmol	1
148	**YS_N_HT412-SL**	5' GTCGTATCCAGTGCAGGGTCCGAGGTATTCG CACTGGATACGAC GGT AGG 3'	50	25 nmol	1
149	**Yog_miRuni-R**	5' GCA GGG TCC GAG GT 3'	14	25 nmol	5
Total Number of Nucleotides			**4338**		

Terms and Conditions:

1. All terms and conditions will be as per Rajasthan transparency in public procurement rule, 2013.
2. Last date for submission of quotation is 22 January 2025 at 2.00 pm.
3. Date of opening of quotation is 22 January 2025 at 3.00 pm
4. The rate are F.O.R. the respective Department of the University of Rajasthan Jaipur.
5. Firm should submit registration certificate, GST registration.
6. Preferred makes for Custom oligonucleotide synthesis Sigma/Eurofins/Genei/Thermo fisher/equivalent.
7. Supply period will be within 20 days.

16/1/25

Dr Chandra Pal Singh
(Principal Investigator)
(SUR/2022/003056)

Dr. Chandra Pal Singh
Principal Investigator (SERB)
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16/1/25

Prof. R.A. Sharma
Head, Department of Botany

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