

**Government of India
Bhabha Atomic Research Centre
Radiation Medicine Center
Tata Memorial Centre Annexe Building
Parel, Mumbai-400012.**

Ref:

Date: 22-10-2018

Sub: Custom synthesis of 1,344bp gene fragment, cloning in suitable vector (between NdeI/HindIII sites), and supply of 4 µg plasmid containing the insert along with bacterial culture stab.

For and behalf of President Of India, sealed quotations are invited by **Head, Radiation Medicine Center, BARC for Minor Fabrication of Custom Gene synthesis as per Detailed Specifications as given in Annexure I**

| Sr .no | Name of Items | Qty. |
|--------|--|------|
| 1 | <p>Custom synthesis of 1,344bp gene fragment, cloning in suitable vector (between NdeI/HindIII sites), and supply of 4 µg plasmid containing the insert along with bacterial culture stab.</p> <p style="text-align: center;"><u>Detailed Specifications - Annexure I</u></p> <p>Number of Amino Acids: 442 amino acids and 3 stop codons. Sequence of the protein to be codon optimized and synthesized :</p> <p>MKYLLPTAAAGLLLLAAQPAMAEVQLVESGGGLVQPGGSLTSCAASRFMISEYSMHWVRQAPGKLEWVSTINPAGTTDYAE SVKGRFTISRDNAKNTLYLQMNSLKPEDTAVYYCDGYGRGQGTQTVSSGGGGSGGGSGGGSSDFYKRLINKAKTVEGVE ALKLHILAALPGGGGSGGGSGGGGSEVQLVESGGELVQPGGSLRSCAASGLTFSSYNMGWFRRAPGKEREFVASITWSGRD TFYADSVKGRFTISRDNAKNTVYLQMSLKPEDTAVYYCAANPWPVAAPRSGTYWGQGTQTVSSHHHHHHStopStopStop MKYLLPTAAAGLLLLAAQPAMAHHHHHHGLSQEKPKEVKTENDHINLKVAGQDGSVVQFKIKRHTPLSKLMKAYCERQGLS MRQIRFRFDGQPINETDTPAQLMEDEDTIDVFQQQTGG</p> <p>Codon Sequence: Codon start with: CAT ATG AAGTATCTGCTGCCGACCGCGGGCGGGCCTGCTGCTGCTGGCGGCGCAACCGGCGATGGCGGAAGTGCAA CTGGTGGAAAGCGGTGGCGGTCTGGTGAACCGGGCGGTAGCCTGACCTGAGCTGCGCGGCGAGCCGTTTC ATGATCAGCGAGTACAGCATGCACTGGGTGCGTCAAGCGCCGGGTAAGGTTGGAATGGGTTAGCACCATCA ACCCGCGGGCACCAACCGACTATGCGGAGAGCGTGAAGGGTCTTTTACCATTAGCCGTGATAACCGGAAAAA CACCCGTACCTGCAAATGAACAGCCTGAAGCCGAGGACACCGCGTTTACTATTGCGATGGCTACGGTTATC GTGGCCAGGGCACCAAGTGACCGTTAGCAGCGCGGTGGCGGTAGCGGCGGTGGCGGTAGCGGCGGTGGC GGTAGCAGCGACTTCTACAAGCGTCTGATCAACAAGGCGAAAACCGTGGAGGGTGTGAAGCGCTGAAACTGC ACATTCTGGCGCGCTGCCGGGCGGTGGCGGTAGCGGCGGTGGCGGTAGCGGCGGTGGCGGTAGCGAGGTG CAGCTGGTTGAGAGCGGCGGTGAAGTGGTGCAGCCGGGCGGTAGCCTGCGTTTATCTTGGCGGCGAGCGGT CTGACCTCAGCAGCTATAACATGGGCTGGTTTCGTCGTGCGCCGGTAAAGAGCGTGAATTTGTTGCGAGCAT CACCTGGAGCGCCGTGACACCTTCTACCGGATAGCGTGAAGGTCGTTTACCATTAGCCGTGACAACGCG</p> | 1 |

AAGAACACCGTTTACCTGCAAATGAGCAGCCTGAAACCGGAAGATACCGCGGTGTA
CTATTGCGCGGCGAACC
CGTGGCCGGTTGCGGCGCCGCTAGCGGCACCTACTGGGGTCAAGGCACCCAGGTGACCGTTAGCAGCCACC
ACCATCACCACCACTAATAATAAATGAAATATCTGCTGCCTACCGCGGCGCGGGTCTGCTGCTGCTGGCGGCT
CAGCCGGCGATGGCGCATCATCACCACCACCACGGCAGCCTGCAAGAGGAAAAGCCGAAAGAGGGTGTGAAA
ACCGAAAACGACCACATCAACCTGAAAGTTGCGGGCCAGGATGGTAGCGTGGTTCAATTCAAGATTAACGTC
ACACCCCGCTGAGCAAGCTGATGAAAGCGTACTGCGAACGT CAGGGCCTGAGCATGCGTCAAATCCGTTTCCG
TTTTGACGGTCAACCGATTAACGAAACCGATACCCCGGCGCAACTGGAGATGGAGGATGAGGATACCATTGAT
GTTTTTCAGCAGCAGACCGGCGGC

Codon end with: AAGCTT

1. Expression Host: **E.Coli BL21 will be used for protein overexpression.**
2. Restriction Endonuclease sites to be added:
 - 1) NdeI site on 5' end on gene (N- terminus of protein)
 - 2) HindIII site on 3' end on gene (C-terminus of protein)
3. Expected Quantity of purified insert containing vector(Plasmid) to be supplied: **4µg,**
"DNA sequence" of the cloned insert has to be submitted along with the
vector/plasmid
4. Expected Quantity of the Bacterial Culture stab: **1No**



Terms and conditions:

1. The purchaser reserves the right to place an order for a quantity more or less than that indicated in the enclosed specification list.
2. The taxes, excise duty and transportation charges shall be quoted separately. From-H, Octroi Exemption and Excise Duty Exemption Certificates will be provided, if necessary.
3. Sealed quotations must reach **Head, Radiation Medicine Center, BARC, C/O Tata Memorial Hospital Annexe Building, Parel, and Mumbai-400012 by 16-11-2018. Quotations will be opened on 20.11.2018 at 15:30 Hours. Quotations to be send by Speed Post/ Registered Post only.**
4. The above-mentioned Reference No., Date and Time of opening of bids must be clearly written on the sealed envelope containing the quotation.
5. The bidder shall finish the job in accordance with our specifications within 30 days from the date of issue of the work order.
6. Payment will be made as per rules after completion of the job satisfactorily. Part payments and advance payments are not possible. The offer shall be kept for acceptance for a maximum period of 30 days from the date of opening the quotation
7. The undersigned reserves the right to accept / reject any or all the quotation received, without assigning any reason whatsoever.
8. A brief list of similar job executed (if any), and name of the organization for which such job was carried out should be furnished along with the quotation.
9. The bidder shall furnish the information regarding whether an ex-employee of BARC is working in his organization or whether any of his relatives are working in DAE/BARC or he is an ex-employee of DAE/BARC. In case of absence of such information or wrong information, the quotation or contract is likely to be rejected or cancelled.
10. The bidder is requested to acknowledge in writing the terms and conditions mentioned in the contract.
11. **The bidder has to give PAN No./GST No./CST No./Service Tax No. While submitting the sealed quotation. Xerox of the PAN Card/ VAT/CST Registration Slip are required to be attached.**

12. Pre-dispatch inspection is Not required; The DNA sequence of the ligated clone in expression vector should be given to us for verification, auditing and as a QC.

13 Documentary evidence towards payment of service tax (receipt/ acknowledgement) by the firm may be furnished for verification /records.

14. Mandatory Requirements

- If an authorized dealer is bidding for the parent company then the authorized representative should be having an office for the last 5 years
- Required: Documentary Evidence
- Should not have incurred any loss in the last five years ending 31st March 2017.
- Required: Documentary Evidence
- **Quality Assurance**

Details about the quality control test that will be carried out during the cloning and the subsequent sequencing has to be submitted while supplying the material.

(Yogesh P. Dhekale.)
Scientific Officer/C

Through:

Head, RMC, BARC
(Competent Authority)

डॉ. (श्रीमती) शर्मिला बॅनर्जी
उत्कृष्ट वैज्ञा. आदि अध्यक्षा, विकिरण औषध केंद्र
Dr. (Smt.) Sharmila Banerjee
OS & Head, Radiation Medicine Centre

