

BASIS TO SOLICIT FROM A SINGLE SOURCE (PROCUREMENTS BELOW 100K)

CONTRACTING OFFICERS MAY SOLICIT FROM ONE SOURCE IF IT IS DETERMINED THAT THE CIRCUMSTANCES OF THE CONTRACT ACTION DEEM ONLY ONE SOURCE REASONABLY AVAILABLE (SEE FAR ~~13.106-1(b)(1)~~). THIS DETERMINATION MUST BE SUPPORTED WITH A BASIS FOR SOLE SOURCE FROM THE CUSTOMER. WHEN THE CUSTOMER DESCRIBES AN ITEM WITH A PURCHASE DESCRIPTION, WHICH LIMITS THE AVAILABILITY TO ONE SOURCE, THE BASIS MUST EXPLAIN WHY THE ITEM IS THE ONLY ONE THAT WILL MEET THE GOVERNMENT'S REQUIREMENT. STATEMENTS SUCH AS "ONLY KNOWN SOURCE" OR "ONLY SOURCE WHICH CAN MEET THE REQUIRED DELIVERY DATE" ARE INADEQUATE TO SUPPORT A SOLE SOURCE PURCHASE. THE CUSTOMER SHALL PROVIDE THE FOLLOWING INFORMATION:

1. PURCHASE REQUEST NO. 4200521606	2. REQUESTOR'S NAME & TELEPHONE NO. Masood Hadi; 650-604-1892	3. EST. AMOUNT (OVER \$3,000 BUT NTE \$100,000) \$95,940.00
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4. BRIEF DESCRIPTION OF SUPPLIES OR SERVICES REQUIRED AND THE INTENDED USE.
Required is an isothermal titration calorimetry instrument (ITC) for protein engineering applications in synthetic biology. ITC is a scientific standard for the characterization of protein-ligand and small molecule interactions and provides valuable insights into the mechanisms of binding. The ability to perform ITC measurements will complete the core set of protein engineering capabilities in the Synthetic Biology Innovation Lab.

5. UNIQUE CHARACTERISTICS THAT LIMIT AVAILABILITY TO ONLY ONE SOURCE, WITH THE REASON(S) NO OTHER SUPPLIES OR SERVICES CAN BE USED.
We had identified an Isothermal Titration Calorimeter from the Microcal Brand, specifically the ITC-200 for its unique minimal sample requirement and various patent technologies covered by patent# 5,813,763 and #5,967,659. The ITC-200 is also unique in its cell composition using the hastelloy material, which is inert to biological systems and buffers. Data analysis is performed through a proprietary software interface (VPViewer™) integrated with Origin® software which contains unique binding models for accurate protein interaction characterization.

6. REASON(S) THAT SUGGESTED SOURCE IS THE ONLY SOURCE WHICH CAN PROVIDE THE SUPPLIES OR SERVICES.
The Synthetic Biology Innovation Lab (SBIL) is currently building its core capabilities for protein engineering. The ITC capability is essential in performing robust experimentation for understanding of protein interactions. Currently Origins software is used to drive all instrumentation for protein engineering in the SBIL and obtaining the Microcal ITC-200 with Origins software will ensure the successful integration of this instrument into the SBIL current infrastructure and is essential to maintaining experimental continuity and outputs.
A number of potential vendors were evaluated for their ability to provide this instrument and price competitiveness including Malvern (primary vendor) and the small business Government Scientific Source (GSS). However the preliminary price quote from GSS was significantly more expensive than from Malvern, thus our ability to procure this instrument is limited to only one source.

7. SOLE SOURCE BASED ON URGENCY MUST INCLUDE INFORMATION DESCRIBING THE CIRCUMSTANCES LEADING UP TO THE URGENT SITUATION AND HOW THE GOVERNMENT WILL BE HURT IF TIME IS TAKEN TO OBTAIN COMPETITION.
N/A

8. PROVIDE A STATEMENT OF ACTIONS, IF ANY, THE GOVERNMENT MAY TAKE TO REMOVE OR OVERCOME ANY BARRIERS TO COMPETITION BEFORE FUTURE ACQUISITIONS ARE REQUIRED. (SEE FAR ~~6.303-2(a)(11)~~.) IF THIS IS A FOLLOW-ON ACTION TO A PREVIOUSLY COMPETED ACTION, SO STATE.
N/A

9. TECHNICAL AND REQUIREMENTS CERTIFICATION: SIGNATURES ARE REQUIRED FROM THE TECHNICAL REQUESTOR (CIVIL SERVANT) AND A MANAGEMENT OFFICIAL (CIVIL SERVANT) WITHIN THE TECHNICAL REQUESTORS ORGANIZATION – EITHER HANDWRITTEN OR ELECTRONIC SIGNATURES ARE ACCEPTABLE.

I CERTIFY THAT TO THE BEST OF MY KNOWLEDGE AND BELIEF, THE DATA FURNISHED ABOVE IS COMPLETE AND ACCURATE.

Masood Hadi 8/22/14
TECHNICAL REQUESTOR DATE

Mogk. Moka 8/22/2014
TECHNICAL MANAGER DATE