

CR133 – enhanced-flexizyme-U (eFx-U) pairs with A73 discriminator base of tRNA (45 nucleotides)

GGAUCGAAAGAUUCCGCGGCCCCGAAAGGGGAUUAGCGUUAGGU

References -

1) Sequence source: Murakami, H., Ohta, A., Ashigai, H., & Suga, H. (2006). A highly flexible tRNA acylation method for non-natural polypeptide synthesis. In *Nature Methods* (Vol. 3, Issue 5, pp. 357-359). Springer Science and Business Media LLC. <https://doi.org/10.1038/nmeth877>

2) PDB structure file: 3CUN



3) Xiao, H., Murakami, H., Suga, H., & Ferre-D'Amare, A. R. (2008). Structural basis of specific tRNA aminoacylation by a small in vitro selected ribozyme. In *Nature* (Vol. 454, Issue 7202, pp. 358-361). Springer Science and Business Media LLC. <https://doi.org/10.1038/nature07033>

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5) Zhang, J., & Ferre-D'Amare, A. R. (2014). A Flexible, Scalable Method for Preparation of Homogeneous Aminoacylated tRNAs. In *Methods in Enzymology* (pp. 105-113). Elsevier. <https://doi.org/10.1016/b978-0-12-801122-5.00005-2>