# **TPG-FLAG**<sup>\*</sup>, an epitope tagging reagent: a new twist on an old idea

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## Conclusion

- The Alkyne-FLAG peptide that was synthesized has strong supporting evidence that it is the desired product. The HPLC peak that was collected and tested with a Mass Spectrometer results in a spectrum showing the M+1 and M+2 of the FLAG.
- The click reaction with the APG (azidophenylglyoxal) and Alkyne-FLAG was deemed successful because the product peak was collected and tested with a MS, and the correct M+1 and M+2 for the TriazolylPhenylGlyoxal-FLAG were observed.
- Although the alkyne peak all but disappeared (> 98%) and the peak attributed to coumarin-Flag appeared at nearly equivalent intensity and was fluorescent under 360 nm light, mass spec data do not support the assignment of Methoxycoumarin-FLAG.



(Left) Alkyne FLAG before click reaction with 7methoxycoumarin-3carbonyl azide on the left, and coumarin-FLAG after click reaction.

### References

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