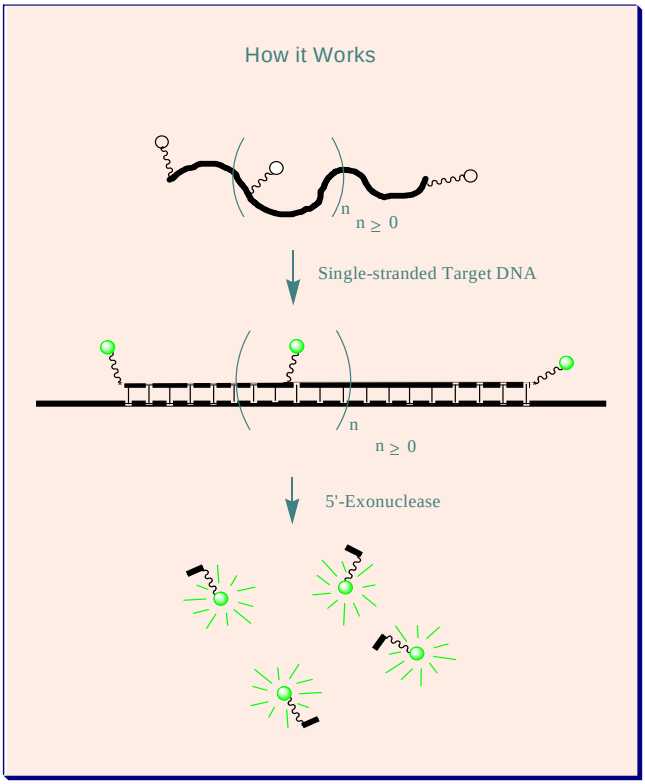
A Breakthrough in PCR Technology:

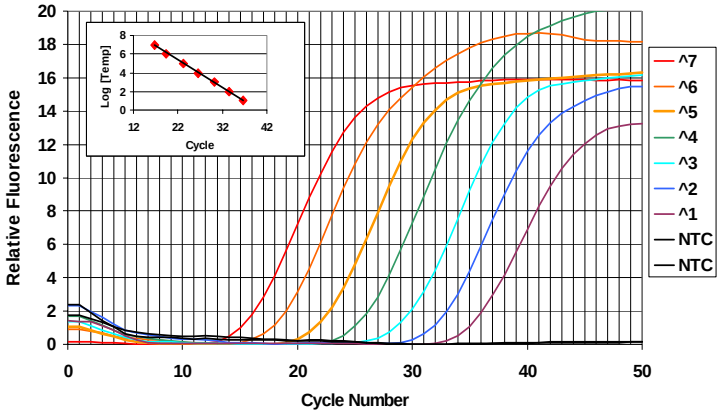
AllGlo™ Fluorogenic Reagents for RT-PCR

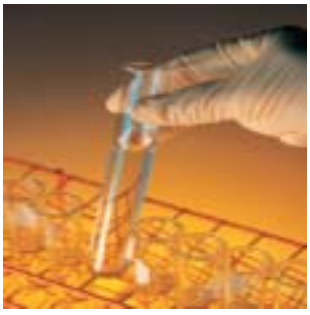
The Brightest and also the Simplest—Our AllGlo™ technology is so novel and elegant, it sets a new gold standard for fluorogenic PCR Reagents. AllGlo™ probes produce significantly brighter signals than the traditional TaqMan™ probes, including TaqMan™ probes with a minor groove binding group (MGB).The technology is extendable to fluorogenic primers (AllGlo™ primers) as well as other fluorogenic oligonucleotides. With our proprietary fluorescent dye labels, AllGlo™ probes and primers can be made in many colors encompassing wavelengths from UV to infrared, making multiplex detection easily attainable. Moreover, our AllGlo™ probes and primers are much easier and thus more economical to manufacture than traditional fluorogenic probes and primers are because multiple oligo labelings are accomplished in a single step using our easy-to-handle proprietary fluorescent dyes.

Each AllGlo™ Probe Generates More Than One Fluorophore



Dilution Series of 10^1 to 10^7 Copies of MCG Gene with an AllGlo™ Probe (URA™)



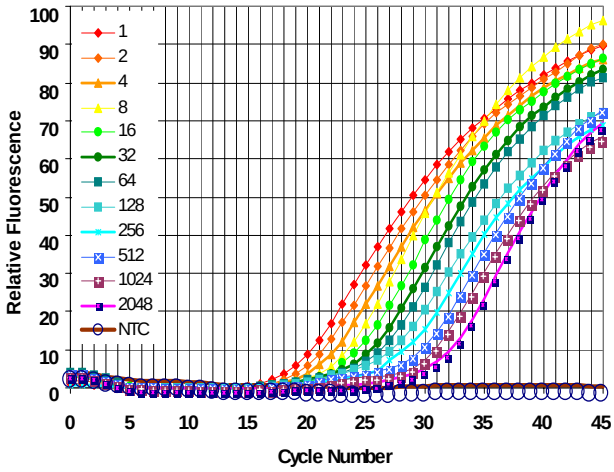


AlleLogic Biosciences Corp
Logic Tools for Life Science™

Simply the Brightest Probes

If you have been using TaqMan™ or molecular beacon probes for your RT-PCR, then consider AllGlo™ probes and get unprecedented detection sensitivity. The following plots of kinetic fluorescence measurements compare the performance of AllGlo™ probes with that of TaqMan™ probes or beacon probes labeled with a similar reporter dye.

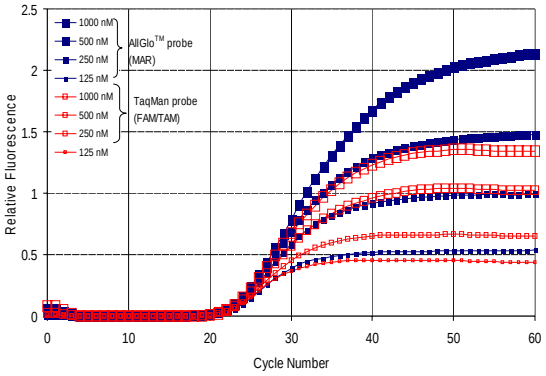
2-fold dilutions of human brain cDNA detected by AllGlo™ GAPDH probe in 10ul PCR reaction



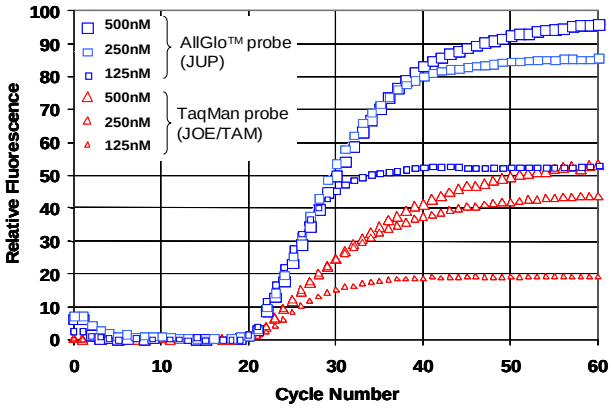
An AllGlo™ probe doubly labeled with MAR™ in 10ul PCR reaction is very bright and sensitive. Even with 2-fold template dilution it still be able to produce a tide and accurate titration curve.

An AllGlo™ probe doubly labeled with MAR™ is 60% more sensitive than a TaqMan™ probe labeled with FAM andTAMRA

AllGlo™ Probe Doubly-labeled with MAR™ vs. TaqMan™ Labeled with FAM and TAMRA



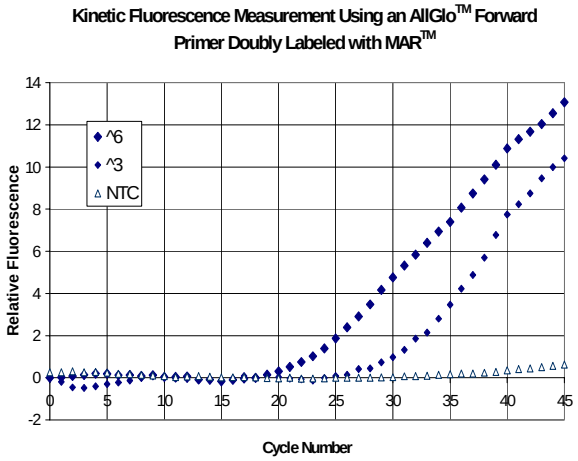
AllGlo™ Probe Doubly-labeled with JUP™ vs. TaqMan™ Labeled with JOE and TAMRA

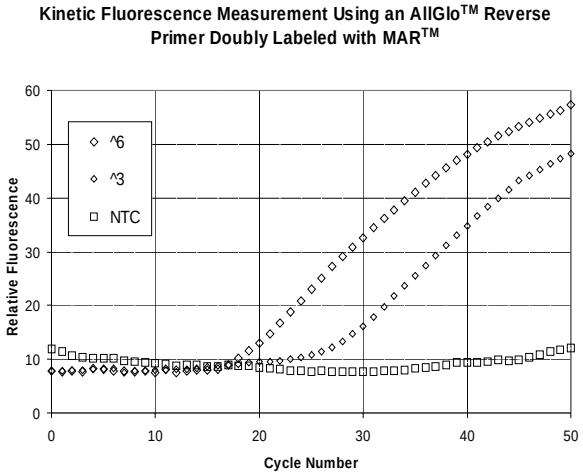


An AllGlo™ probe doubly labeled with JUP™ is 100% more sensitive than a TaqMan™ probe labeled with JOE and TAMRA

Simply the Most Versatile Technology

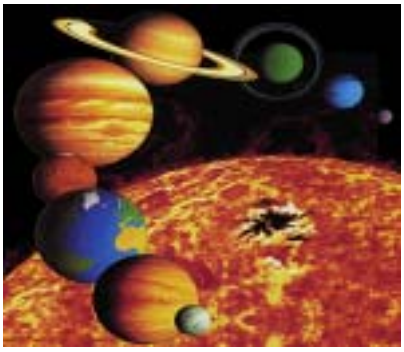
Our AllGlo™ technology can also be applied to primers, resulting in AllGlo™ primers. In their free forms, AllGlo™ primers are nonfluorescent or weakly fluorescent. The primers become fluorescent upon hybridization with a target sequence and subsequent incorporation into the amplification product.



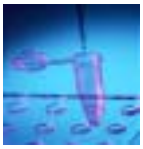


Simply the Most Colorful Probes

Because AllGlo™ technology does not require a quencher dye, which often limits what reporter dye one can use in the design of traditional TaqMan™ probes, AllGlo™ probes and primers can have a variety of absorption and emission wavelengths spanning the entire visible spectrum. Listed below are a few selected proprietary dyes that produce optimal results with our AllGlo™ technology:

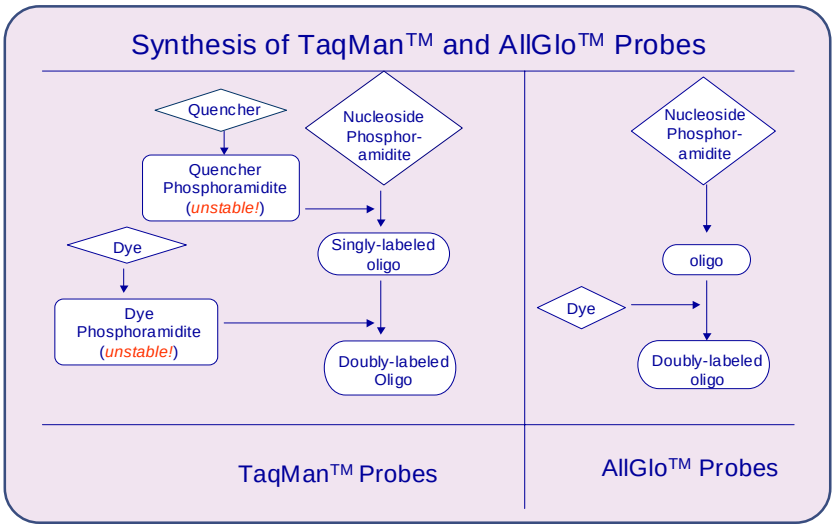


AllGlo™ Dye	λ_{abs}(nm)	λ_{em}(nm)	Similar Dye
MAR	485-505	515-530	FAM
JUP	515-530	540-560	VIC, JOE, HEX, TET
SAT	540-560	560-585	Cy3, TAMRA
URA	565-590	600-620	ROX, Texas Red
more AllGlo™ dyes to come			



Simply the *Simplest* Probes

If you have been synthesizing TaqMan™ probes or molecular beacon probes, consider AllGlo™ probes and significantly save your manufacturing cost. With AllGlo™ probes, you no longer have to attach labels to the oligo one at a time and deal with unstable, expensive phosphoramidite dyes; you complete the dye labeling in a single step by reacting an amine-modified oligo intermediate with one of our succinimidyl ester dyes. That's right, you get the best of both worlds: superior performance and lower cost. Compare the synthesis schemes for TaqMan™ and AllGlo™ probes and form your own conclusion.



Products and Services

Our pending patent-covered AllGlo™ technology is available to you via the following methods:

- nonexclusive licensing
- custom synthesis
- sales of our AllGlo™ dyes to licensees of AllGlo™ technology

For details, please contact us via email, fax or telephone.

AlleLogic Biosciences Corp
Logic Tools for Life Science™

3423 Investment Blvd. Suite 9
Hayward, CA 94545
Tel: (510) 265-0265
Fax: (510) 265-1352
Email: info@allelogic.com
Website: www.allelogic.com
Hours of operation: 8am-5pm PST