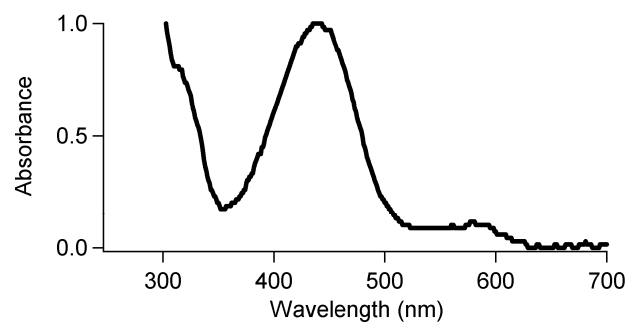
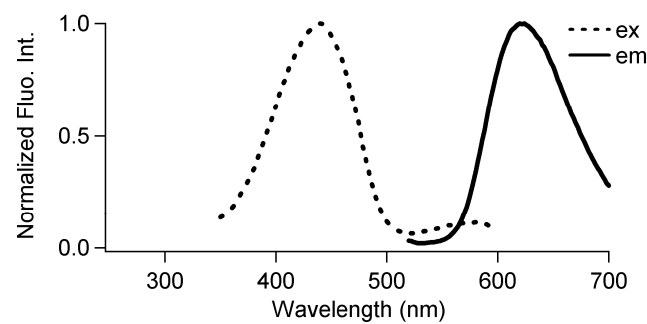


### humanized monomeric Keima-Red (phmKeima-Red-S1)

**Quantity**  
**20 µg**

**CoralHue<sup>®</sup> mKeima-Red:** 222 amino acids

	Excit./Emiss.Maxima (nm)	Extinction Coefficient(M <sup>-1</sup> cm <sup>-1</sup> )	Fluorescence Quantum Yield	pH sensitivity
mKeima-Red	440/620	14,000 (440 nm)	0.24	pK <sub>a</sub> =6.5



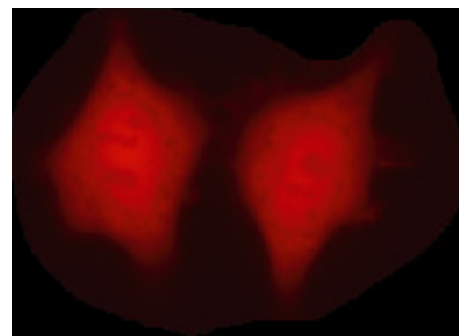
**CoralHue<sup>®</sup> hmKeima-Red**

**1) DNA sequence**

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GAGCGGGACCGTGAACGGCCACTACTTCGAGGTGGAGGGCGACG
GCAAGGGCAAGCCCTACGAGGGCGAGCAGACCGTGAAGCTGACC
GTGACCAAGGGTGGCCCCCTGCCCTTCGCCTGGGACATCCTGAG
CCCCAGCTCCAGTACGGCAGCATCCCCTTCACCAAGTACCCCG
AGGACATCCCGACTACTTCAAGCAGAGCTTCCCGAGGGCTAC
ACCTGGGAGCGCAGCATGAACTTCGAGGACGGCGCGTGTGCAC
CGTGAGCAACGACAGCAGCATCCAGGGCAACTGCTTCATCTACA
ACGTGAAGATCAGCGGCGAGAACTTCCCCCAACGGCCCCGTG
ATGCAGAAGAAGACCCAGGGCTGGGAGCCCAGCACCGAGCGCCT
GTTCCGCCGCGACGGAATGCTGATCGGCAACGACTACATGGCCC
TGAAGCTGGAGGGCGGCGGCACTACCTGTGCGAGTTCAAGAGC
ACCTACAAGGCCAAGAAGCCCGTGAGGATGCCCGGCCGCCACGA
GATCGACCGCAAGCTGGACGTGACCAGCCACAACCGCGACTACA
CCAGCGTGGAGCAGTGCGAGATCGCCATCGCCGCCACAGCCTG
CTGGGC
```

**2) Amino acid sequence**

```
MVSVIAKQMTYKVYMSGTVNGHYFEVEGDGKGKPYEGEQT VK
LTVTKGGPLPFAWDILSPQLQYGSIPFTKYPEDIPDYFKQSF
PEGYTWERSMNFE DGAVCTVSNDSSIQGNCFIYNVKISGENF
PPNGPVMQKKTQGWEPTERL FARDGMLIGNDYMALKLEGGG
HYLCEFKSTYKAKKPV RMPGRHEIDRKLDVTSNDRDYTSVEQ
CEIAIARHSLLG
```



**CoralHue<sup>®</sup> hmKeima-Red expression in HeLa cells**

**CoralHue<sup>®</sup> hmKeima-Red** is a product of co-development with Dr. Atsushi Miyawaki at the Laboratory for Cell Function and Dynamics, the Brain Science Institute, and the Institute of Physical and Chemical Research (RIKEN).

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Patent No. JP5147915, US8420781 and EP2314682