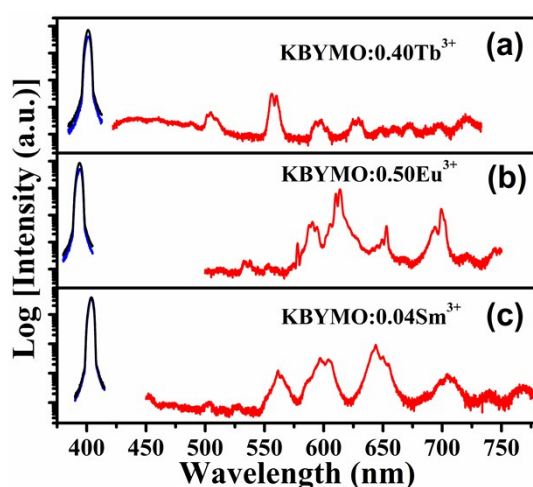


## Supporting Information

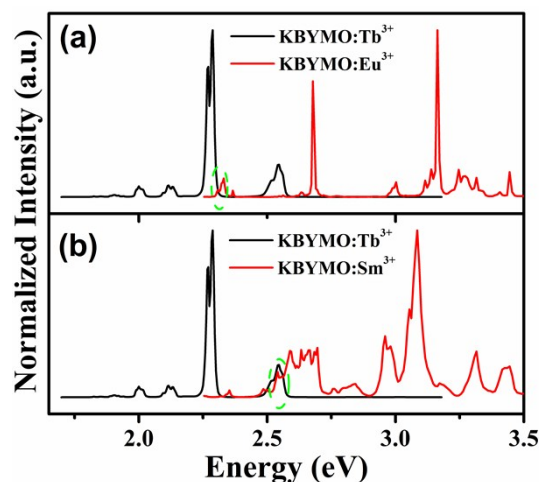
### Photoluminescence and energy transfer properties of a novel molybdate $\text{KBaY}(\text{MoO}_4)_3:\text{Ln}^{3+}$ ( $\text{Ln}^{3+} = \text{Tb}^{3+}, \text{Eu}^{3+}, \text{Sm}^{3+}, \text{Tb}^{3+}/\text{Eu}^{3+}, \text{Tb}^{3+}/\text{Sm}^{3+}$ ) as a multi-color emitting phosphor for UV w-LEDs

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**Fig. S1** Corrected excitation and emission spectra of  $\text{KBYMO:0.40Tb}^{3+}$  (a),  $\text{KBYMO:0.50Eu}^{3+}$  (b) and  $\text{KBYMO:0.04Sm}^{3+}$  (c) in addition to their corresponding reference collected by an integrated sphere.



**Fig. S2** Spectral overlap between normalized  $\text{KBYMO:Tb}^{3+}$  emission and  $\text{KBYMO:Eu}^{3+}$  (a) and  $\text{KBYMO:Sm}^{3+}$  (b) excitation spectra.