$$\begin{split} &c_{\gamma}^{2}\,\overline{y_{e}}^{pr}\,y_{e}^{pr}\,\mathsf{LF}_{1,0}\big[\mathsf{m}_{\bar{e}}^{r}\big] + \left(c_{\gamma}^{2}\,\overline{y_{e}}^{pr}\,y_{e}^{pr}\,+\frac{1}{2}\,\sum_{p}\,c_{2\,\gamma}\,g_{1}^{2}\right)\,\mathsf{LF}_{1,0}\big[\mathsf{m}_{\bar{i}}^{p}\big] + \\ &\left(3\,c_{\gamma}^{2}\,\overline{y_{d}}^{pr}\,y_{d}^{pr}\,+3\,s_{\gamma}^{2}\,\overline{y_{u}}^{pr}\,y_{u}^{pr}\,-\frac{1}{2}\,\sum_{p}\,c_{2\,\gamma}\,g_{1}^{2}\right)\,\mathsf{LF}_{1,0}\big[\mathsf{m}_{\bar{q}}^{p}\big] + \sum_{p}\,c_{2\,\gamma}\,g_{1}^{2}\,\mathsf{LF}_{1,0}\big[\mathsf{m}_{\bar{u}}^{p}\big] + \\ &3\,s_{\gamma}^{2}\,\overline{y_{u}}^{pr}\,y_{u}^{pr}\,\mathsf{LF}_{1,0}\big[\mathsf{m}_{\bar{u}}^{r}\big] + \frac{1}{8}\,\left(-g_{1}^{2}\,\left(1+3\,c_{4\,\gamma}\right)-3\,g_{2}^{2}\,\left(-1+c_{4\,\gamma}\right)\right)\,\mathsf{LF}_{1,0}\big[\mathsf{m}_{\bar{u}}\big] - \\ &g_{1}^{2}\,\mathsf{LF}_{1,1,-1}\big[\mathsf{m}_{1}\,,\,\tilde{\mu}\big] - 2\,\mathsf{m}_{1}\,s_{\gamma}\,\tilde{\mu}\,c_{\gamma}\,g_{1}^{2}\,\mathsf{LF}_{1,1,0}\big[\mathsf{m}_{1}\,,\,\tilde{\mu}\big] - 3\,g_{2}^{2}\,\mathsf{LF}_{1,1,-1}\big[\mathsf{m}_{2}\,,\,\tilde{\mu}\big] - \\ &6\,\mathsf{m}_{2}\,s_{\gamma}\,\tilde{\mu}\,c_{\gamma}\,g_{2}^{2}\,\mathsf{LF}_{1,1,0}\big[\mathsf{m}_{2}\,,\,\tilde{\mu}\big] + 3\,\left(c_{\gamma}\,\overline{a_{d}}^{pr}-s_{\gamma}\,\tilde{\mu}\,\overline{y_{d}}^{pr}\right)\,\left(c_{\gamma}\,a_{d}^{pr}-s_{\gamma}\,\tilde{\mu}\,y_{d}^{pr}\right)\,\mathsf{LF}_{1,1,0}\big[\mathsf{m}_{\bar{d}}^{r}\,,\,\mathsf{m}_{\bar{q}}^{p}\big] + \end{split}$$