# Basis Bern (EFT WET)

Basis suggested by Aebischer, Fael, Grueb, and Virto (arXiv:1704.06639). Neutrinos are in the flavor basis.

## Sectors

The effective Lagrangian is defined as

$$\mathcal{L}_{\text{eff}} = -\mathcal{H}_{\text{eff}} = \sum_{O_i = O_i^{\dagger}} C_i O_i + \sum_{O_i \neq O_i^{\dagger}} \left( C_i O_i + C_i^* O_i^{\dagger} \right).$$

#### sbsb

WC name	Operator	Type
1sbsb	$\frac{4G_F}{\sqrt{2}}(\bar{s}\gamma_\mu P_L b)(\bar{s}\gamma^\mu P_L b)$	$\overline{C}$
5sbsb	$\frac{4G_F}{G_G}(\bar{s}_{\alpha}P_Lb_{\beta})(\bar{s}_{\beta}P_Rb_{\alpha})$	$^{\mathrm{C}}$
2sbsb	$\frac{4\check{G}_{F}}{\bar{G}}(\bar{s}P_{L}b)(\bar{s}P_{L}b)$	$\mathbf{C}$
1psbsb	$\frac{4G_F}{\sqrt{2}}(\bar{s}\gamma_\mu P_R b)(\bar{s}\gamma^\mu P_R b)$	$\mathbf{C}$
3sbsb	$\frac{4G_F}{\sqrt{s}}(\bar{s}_{\alpha}P_Lb_{\beta})(\bar{s}_{\beta}P_Lb_{\alpha})$	$\mathbf{C}$
2psbsb	$\frac{4G_F}{\sqrt{2}}(\bar{s}P_Rb)(\bar{s}P_Rb)$	$\mathbf{C}$
4sbsb	$\frac{4G_F}{\sqrt{2}}(\bar{s}P_Lb)(\bar{s}P_Rb)$	$\mathbf{C}$
3psbsb	$\frac{4\widetilde{G}_F}{\sqrt{2}}(\bar{s}P_Lb)(\bar{s}P_Rb) \\ \frac{4G_F}{\sqrt{2}}(\bar{s}_\alpha P_Rb_\beta)(\bar{s}_\beta P_Rb_\alpha)$	C

## dbdb

WC name	Operator	Type
1dbdb	$\frac{\frac{4G_F}{\sqrt{2}}(\bar{d}\gamma_{\mu}P_Lb)(\bar{d}\gamma^{\mu}P_Lb)}{\frac{4G_F}{\sqrt{2}}(\bar{d}_{\alpha}P_Lb_{\beta})(\bar{d}_{\beta}P_Rb_{\alpha})}$ $\frac{\frac{4G_F}{\sqrt{2}}(\bar{d}P_Lb)(\bar{d}P_Lb)}{\frac{4G_F}{\sqrt{2}}(\bar{d}P_Lb)(\bar{d}P_Lb)}$	$\overline{C}$
5dbdb	$rac{4reve{G_F}}{\sqrt{2}}(ar{d}_lpha P_L b_eta)(ar{d}_eta P_R b_lpha)$	$\mathbf{C}$
2dbdb	$\frac{4\tilde{G}_F}{\sqrt{2}}(\bar{d}P_Lb)(\bar{d}P_Lb)$	$\mathbf{C}$
1pdbdb	$\frac{\sqrt[4]{G_F}}{\sqrt[4]{2}}(\bar{d}\gamma_{\mu}P_Rb)(\bar{d}\gamma^{\mu}P_Rb)$ $\frac{\sqrt[4]{G_F}}{\sqrt[4]{2}}(\bar{d}_{\alpha}P_Lb_{\beta})(\bar{d}_{\beta}P_Lb_{\alpha})$ $\frac{\sqrt[4]{G_F}}{\sqrt[4]{2}}(\bar{d}P_Rb)(\bar{d}P_Rb)$	$^{\mathrm{C}}$
3dbdb	$rac{4 \overleftarrow{G_F}}{\sqrt{2}} (ar{d}_lpha P_L b_eta) (ar{d}_eta P_L b_lpha)$	$\mathbf{C}$
2pdbdb	$\frac{4\overleftarrow{G_F}}{\sqrt{2}}(\bar{d}P_Rb)(\bar{d}P_Rb)$	$\mathbf{C}$
4dbdb	$rac{\sqrt{2}}{\sqrt{2}}(ar{d}P_Lb)(ar{d}P_Rb)$	$\mathbf{C}$
3pdbdb	$rac{4ar{G}_F}{\sqrt{2}}(ar{d}_lpha P_R b_eta)(ar{d}_eta P_R b_lpha)$	С

## ubenu

WC name	Operator	Type
1ubee	$\frac{4G_F}{\sqrt{2}}(\bar{u}P_R\gamma^\mu b)(\bar{e}\gamma_\mu\nu_e)$	C
5ubee	$\frac{4\tilde{G}_F}{\sqrt{2}}(\bar{u}P_Rb)(\bar{e}\nu_e)$	$\mathbf{C}$
1pubee	$\frac{4\tilde{G}_F}{\sqrt{2}}(\bar{u}P_L\gamma^{\mu}b)(\bar{e}\gamma_{\mu}\nu_e)$	$^{\mathrm{C}}$
5pubee	$\frac{4\tilde{G}_F}{\sqrt{2}}(\bar{u}P_Lb)(\bar{e}\nu_e)$	$^{\mathrm{C}}$
7pubee	$\frac{4G_F}{\sqrt{2}}(\bar{u}P_L\sigma^{\mu\nu}b)(\bar{e}\sigma_{\mu\nu}\nu_e)$	$^{\mathrm{C}}$
1ubemu	$\frac{4G_F}{\sqrt{2}}(\bar{u}P_R\gamma^\mu b)(\bar{e}\gamma_\mu \nu_\mu)$	$^{\mathrm{C}}$
5ubemu	$\frac{4G_F}{\sqrt{2}}(\bar{u}P_Rb)(\bar{e} u_\mu)$	$\mathbf{C}$
1pubemu	$rac{4G_F}{\sqrt{2}}(ar{u}P_L\gamma^\mu b)(ar{e}\gamma_\mu u_\mu)$	$^{\mathrm{C}}$
5pubemu	$\frac{4G_F}{\sqrt{2}}(\bar{u}P_Lb)(\bar{e} u_\mu)$	$^{\mathrm{C}}$
7pubemu	$\frac{4G_F}{\sqrt{2}}(\bar{u}P_L\sigma^{\mu\nu}b)(\bar{e}\sigma_{\mu\nu}\nu_{\mu})$	$^{\mathrm{C}}$
1ubetau	$\frac{4\tilde{G}_F}{\sqrt{2}}(\bar{u}P_R\gamma^\mu b)(\bar{e}\gamma_\mu  u_ au)$	$^{\mathrm{C}}$
5ubetau	$\frac{4\tilde{G}_F}{\sqrt{2}}(\bar{u}P_Rb)(\bar{e} u_{ au})$	$^{\mathrm{C}}$
1pubetau	$\frac{4 \tilde{G}_F}{\sqrt{2}} (\bar{u} P_L \gamma^\mu b) (\bar{e} \gamma_\mu  u_ au)$	$^{\mathrm{C}}$
5pubetau	$\frac{4\tilde{G}_F}{\sqrt{2}}(\bar{u}P_Lb)(\bar{e} u_{ au})$	$^{\mathrm{C}}$
7pubetau	$\frac{4G_F}{\sqrt{2}}(\bar{u}P_L\sigma^{\mu\nu}b)(\bar{e}\sigma_{\mu\nu}\nu_\tau)$	$\mathbf{C}$

## ${\tt ubmunu}$

WC name	Operator	Type
1ubmue	$\frac{4G_F}{\sqrt{2}}(\bar{u}P_R\gamma^{\mu}b)(\bar{\mu}\gamma_{\mu}\nu_e)$	$\overline{\mathbf{C}}$
5ubmue	$\frac{4\tilde{G}_F}{\sqrt{2}}(\bar{u}P_Rb)(\bar{\mu}\nu_e)$	$^{\mathrm{C}}$
1pubmue	$\frac{4G_F}{\sqrt{2}}(\bar{u}P_L\gamma^{\mu}b)(\bar{\mu}\gamma_{\mu}\nu_e)$	$\mathbf{C}$
5pubmue	$\frac{4G_F}{\sqrt{2}}(\bar{u}P_Lb)(\bar{\mu}\nu_e)$	$\mathbf{C}$
7pubmue	$\frac{4G_F}{\sqrt{2}}(\bar{u}P_L\sigma^{\mu\nu}b)(\bar{\mu}\sigma_{\mu\nu}\nu_e)$	$\mathbf{C}$
1ubmumu	$\frac{4G_F}{\sqrt{2}}(\bar{u}P_R\gamma^{\mu}b)(\bar{\mu}\gamma_{\mu}\nu_{\mu})$	$\mathbf{C}$
5ubmumu	$\frac{4\ddot{G}_F}{\sqrt{2}}(\bar{u}P_Rb)(\bar{\mu}\nu_{\mu})$	$\mathbf{C}$
1pubmumu	$\frac{4 \check{G}_F}{\sqrt{2}} (\bar{u} P_L \gamma^\mu b) (\bar{\mu} \gamma_\mu \nu_\mu)$	$\mathbf{C}$
5pubmumu	$\frac{4\overset{\circ}{G_F}}{\sqrt{2}}(\bar{u}P_Lb)(\bar{\mu}\nu_{\mu})$	$\mathbf{C}$
7pubmumu	$\frac{4 \overset{\leftarrow}{G_F}}{\sqrt{2}} (\bar{u} P_L \sigma^{\mu\nu} b) (\bar{\mu} \sigma_{\mu\nu} \nu_{\mu})$	$\mathbf{C}$
1ubmutau	$\frac{4G_F}{\sqrt{2}}(\bar{u}P_R\gamma^{\mu}b)(\bar{\mu}\gamma_{\mu}\nu_{\tau})$	$\mathbf{C}$
5ubmutau	$\frac{4\ddot{G}_F}{\sqrt{2}}(\bar{u}P_Rb)(\bar{\mu}\nu_{\tau})$	$\mathbf{C}$
1pubmutau	$\frac{4\widetilde{G}_F}{\sqrt{2}}(\bar{u}P_L\gamma^\mu b)(\bar{\mu}\gamma_\mu u_ au)$	$\mathbf{C}$
5pubmutau	$\frac{4G_F}{\sqrt{2}}(\bar{u}P_Lb)(\bar{\mu}\nu_{\tau})$	$\mathbf{C}$
7pubmutau	$\frac{4\tilde{G}_F}{\sqrt{2}}(\bar{u}P_L\sigma^{\mu\nu}b)(\bar{\mu}\sigma_{\mu\nu}\nu_\tau)$	$\mathbf{C}$

#### ubtaunu

WC name	Operator	Type
1ubtaue	$\frac{4G_F}{\sqrt{2}}(\bar{u}P_R\gamma^{\mu}b)(\bar{\tau}\gamma_{\mu}\nu_e)$	C
5ubtaue	$\frac{4\tilde{G}_F}{\sqrt{2}}(\bar{u}P_Rb)(\bar{\tau}\nu_e)$	$^{\mathrm{C}}$
1pubtaue	$\frac{4\tilde{G}_F}{\sqrt{2}}(\bar{u}P_L\gamma^{\mu}b)(\bar{\tau}\gamma_{\mu}\nu_e)$	$\mathbf{C}$
5pubtaue	$\frac{4\tilde{G}_F}{\sqrt{2}}(\bar{u}P_Lb)(\bar{\tau}\nu_e)$	$\mathbf{C}$
7pubtaue	$\frac{4\tilde{G}_F}{\sqrt{2}}(\bar{u}P_L\sigma^{\mu\nu}b)(\bar{\tau}\sigma_{\mu\nu}\nu_e)$	$\mathbf{C}$
1ubtaumu	$\frac{4\tilde{G}_F}{\sqrt{2}}(\bar{u}P_R\gamma^{\mu}b)(\bar{\tau}\gamma_{\mu}\nu_{\mu})$	$\mathbf{C}$
5ubtaumu	$\frac{4\tilde{G}_F}{\sqrt{2}}(\bar{u}P_Rb)(\bar{\tau}\nu_\mu)$	$\mathbf{C}$
1pubtaumu	$\frac{4G_F}{\sqrt{2}}(\bar{u}P_L\gamma^{\mu}b)(\bar{\tau}\gamma_{\mu}\nu_{\mu})$	$\mathbf{C}$
5pubtaumu	$\frac{4\check{G}_F}{\sqrt{2}}(\bar{u}P_Lb)(\bar{\tau}\nu_\mu)$	$\mathbf{C}$
7pubtaumu	$\frac{4\check{G}_F}{\sqrt{2}}(\bar{u}P_L\sigma^{\mu\nu}b)(\bar{\tau}\sigma_{\mu\nu}\nu_\mu)$	$\mathbf{C}$
1ubtautau	$\frac{4\tilde{G}_F}{\sqrt{2}}(\bar{u}P_R\gamma^\mu b)(\bar{\tau}\gamma_\mu\nu_ au)$	$\mathbf{C}$
5ubtautau	$\frac{4\tilde{G}_F}{\sqrt{2}}(\bar{u}P_Rb)(\bar{\tau}\nu_{\tau})$	$\mathbf{C}$
1pubtautau	$\frac{4\tilde{G}_F}{\sqrt{2}}(\bar{u}P_L\gamma^{\mu}b)(\bar{\tau}\gamma_{\mu}\nu_{ au})$	$\mathbf{C}$
5pubtautau	$\frac{4\tilde{G}_F}{\sqrt{2}}(\bar{u}P_Lb)(\bar{\tau}\nu_{\tau})$	$\mathbf{C}$
7pubtautau	$rac{4G_F^2}{\sqrt{2}}(ar{u}P_L\sigma^{\mu u}b)(ar{ au}\sigma_{\mu u} u_{ au})$	$\mathbf{C}$

## udenu

WC name	Operator	Type
1udee	$\frac{4G_F}{\sqrt{2}}(\bar{u}P_R\gamma^\mu d)(\bar{e}\gamma_\mu\nu_e)$	
5udee	$\frac{4G_F^2}{\sqrt{2}}(\bar{u}P_Rd)(\bar{e}\nu_e)$	$\mathbf{C}$
1pudee	$\frac{4G_F}{\sqrt{2}}(\bar{u}P_L\gamma^\mu d)(\bar{e}\gamma_\mu\nu_e)$	$\mathbf{C}$
5pudee	$\frac{4G_F}{\sqrt{2}}(\bar{u}P_Ld)(\bar{e}\nu_e)$	$\mathbf{C}$
7pudee	$\frac{4G_F}{\sqrt{2}}(\bar{u}P_L\sigma^{\mu\nu}d)(\bar{e}\sigma_{\mu\nu}\nu_e)$	$\mathbf{C}$
1udemu	$\frac{4G_F}{\sqrt{2}}(\bar{u}P_R\gamma^\mu d)(\bar{e}\gamma_\mu\nu_\mu)$	$\mathbf{C}$
5udemu	$\frac{4G_F}{\sqrt{2}}(\bar{u}P_Rd)(\bar{e}\nu_\mu)$	$\mathbf{C}$
1pudemu	$\frac{4G_F}{\sqrt{2}}(\bar{u}P_L\gamma^\mu d)(\bar{e}\gamma_\mu\nu_\mu)$	$\mathbf{C}$
5pudemu	$\frac{4G_F}{\sqrt{2}}(\bar{u}P_Ld)(\bar{e}\nu_\mu)$	$\mathbf{C}$
7pudemu	$\frac{4G_F}{\sqrt{2}}(\bar{u}P_L\sigma^{\mu\nu}d)(\bar{e}\sigma_{\mu\nu}\nu_{\mu})$	$\mathbf{C}$
1udetau	$\frac{4G_F}{\sqrt{2}}(\bar{u}P_R\gamma^\mu d)(\bar{e}\gamma_\mu\nu_ au)$	$\mathbf{C}$
5udetau	$\frac{4G_F}{\sqrt{2}}(\bar{u}P_Rd)(\bar{e}\nu_{\tau})$	$\mathbf{C}$
1pudetau	$\frac{4G_F}{\sqrt{2}}(\bar{u}P_L\gamma^\mu d)(\bar{e}\gamma_\mu\nu_\tau)$	$\mathbf{C}$
5pudetau	$\frac{4G_F}{\sqrt{2}}(\bar{u}P_Ld)(\bar{e}\nu_{\tau})$	$\mathbf{C}$
7pudetau	$\frac{4\tilde{G}_F}{\sqrt{2}}(\bar{u}P_L\sigma^{\mu\nu}d)(\bar{e}\sigma_{\mu\nu}\nu_\tau)$	С

## udmunu

WC name	Operator	Type
1udmue	$\frac{4G_F}{\sqrt{2}}(\bar{u}P_R\gamma^\mu d)(\bar{\mu}\gamma_\mu\nu_e)$	C
5udmue	$\frac{4G_F^2}{\sqrt{2}}(\bar{u}P_Rd)(\bar{\mu}\nu_e)$	$\mathbf{C}$
1pudmue	$\frac{4\widetilde{G}_F^2}{\sqrt{2}}(\bar{u}P_L\gamma^\mu d)(\bar{\mu}\gamma_\mu\nu_e)$	$\mathbf{C}$
5pudmue	$\frac{4\tilde{G}_F}{\sqrt{2}}(\bar{u}P_Ld)(\bar{\mu}\nu_e)$	$\mathbf{C}$
7pudmue	$\frac{4\tilde{G}_F}{\sqrt{2}}(\bar{u}P_L\sigma^{\mu\nu}d)(\bar{\mu}\sigma_{\mu\nu}\nu_e)$	$\mathbf{C}$
1udmumu	$\frac{4\tilde{G}_F}{\sqrt{2}}(\bar{u}P_R\gamma^\mu d)(\bar{\mu}\gamma_\mu\nu_\mu)$	$\mathbf{C}$
5udmumu	$\frac{4\tilde{G}_F}{\sqrt{2}}(\bar{u}P_Rd)(\bar{\mu}\nu_{\mu})$	$\mathbf{C}$
1pudmumu	$\frac{4\tilde{G}_F}{\sqrt{2}}(\bar{u}P_L\gamma^\mu d)(\bar{\mu}\gamma_\mu\nu_\mu)$	$\mathbf{C}$
5pudmumu	$\frac{4\widetilde{G}_F}{\sqrt{2}}(\bar{u}P_Ld)(\bar{\mu}\nu_{\mu})$	$\mathbf{C}$
7pudmumu	$\frac{4\widetilde{G}_F}{\sqrt{2}}(\bar{u}P_L\sigma^{\mu\nu}d)(\bar{\mu}\sigma_{\mu\nu}\nu_{\mu})$	$\mathbf{C}$
1udmutau	$\frac{4\tilde{G}_F}{\sqrt{2}}(\bar{u}P_R\gamma^\mu d)(\bar{\mu}\gamma_\mu\nu_ au)$	$\mathbf{C}$
5udmutau	$\frac{4\tilde{G}_F}{\sqrt{2}}(\bar{u}P_Rd)(\bar{\mu} u_{ au})$	$\mathbf{C}$
1pudmutau	$\frac{4\widetilde{G}_F}{\sqrt{2}}(\bar{u}P_L\gamma^\mu d)(\bar{\mu}\gamma_\mu\nu_ au)$	$\mathbf{C}$
5pudmutau	$\frac{4G_F}{\sqrt{2}}(\bar{u}P_Ld)(\bar{\mu}\nu_{ au})$	$\mathbf{C}$
7pudmutau	$\frac{4\tilde{G}_F}{\sqrt{2}}(\bar{u}P_L\sigma^{\mu\nu}d)(\bar{\mu}\sigma_{\mu\nu}\nu_\tau)$	С

## ${\tt udtaunu}$

WC name	Operator	Type
1udtaue	$\frac{4G_F}{\sqrt{2}}(\bar{u}P_R\gamma^\mu d)(\bar{\tau}\gamma_\mu\nu_e)$	C
5udtaue	$\frac{4\tilde{G}_F^2}{\sqrt{2}}(\bar{u}P_Rd)(\bar{\tau}\nu_e)$	$\mathbf{C}$
1pudtaue	$\frac{4\tilde{G}_F}{\sqrt{2}}(\bar{u}P_L\gamma^\mu d)(\bar{\tau}\gamma_\mu\nu_e)$	$\mathbf{C}$
5pudtaue	$\frac{4G_F}{\sqrt{2}}(\bar{u}P_Ld)(\bar{\tau}\nu_e)$	$\mathbf{C}$
7pudtaue	$\frac{4 G_F}{\sqrt{2}} (\bar{u} P_L \sigma^{\mu\nu} d) (\bar{\tau} \sigma_{\mu\nu} \nu_e)$	$\mathbf{C}$
1udtaumu	$\frac{4G_F}{\sqrt{2}}(\bar{u}P_R\gamma^\mu d)(\bar{\tau}\gamma_\mu\nu_\mu)$	$\mathbf{C}$
5udtaumu	$\frac{4\tilde{G}_F}{\sqrt{2}}(\bar{u}P_Rd)(\bar{\tau}\nu_\mu)$	$\mathbf{C}$
1pudtaumu	$\frac{4\check{G}_F}{\sqrt{2}}(\bar{u}P_L\gamma^\mu d)(\bar{\tau}\gamma_\mu\nu_\mu)$	$\mathbf{C}$
5pudtaumu	$\frac{4\check{G}_F}{\sqrt{2}}(\bar{u}P_Ld)(\bar{\tau}\nu_\mu)$	$\mathbf{C}$
7pudtaumu	$\frac{4\check{G}_F}{\sqrt{2}}(\bar{u}P_L\sigma^{\mu\nu}d)(\bar{\tau}\sigma_{\mu\nu}\nu_{\mu})$	$\mathbf{C}$
1udtautau	$\frac{4\check{G}_F}{\sqrt{2}}(\bar{u}P_R\gamma^\mu d)(\bar{\tau}\gamma_\mu\nu_ au)$	$\mathbf{C}$
5udtautau	$\frac{4\tilde{G}_F}{\sqrt{2}}(\bar{u}P_Rd)(\bar{\tau}\nu_{\tau})$	$\mathbf{C}$
1pudtautau	$\frac{4G_F}{\sqrt{2}}(\bar{u}P_L\gamma^\mu d)(\bar{\tau}\gamma_\mu\nu_\tau)$	$\mathbf{C}$
5pudtautau	$\frac{4G_F}{\sqrt{2}}(\bar{u}P_Ld)(\bar{\tau}\nu_{\tau})$	$\mathbf{C}$
7pudtautau	$\frac{4\tilde{G}_F}{\sqrt{2}}(\bar{u}P_L\sigma^{\mu\nu}d)(\bar{\tau}\sigma_{\mu\nu}\nu_{\tau})$	С

## ${\tt cdenu}$

WC name	Operator	Type
1cdee	$\frac{4G_F}{\sqrt{2}}(\bar{c}P_R\gamma^\mu d)(\bar{e}\gamma_\mu\nu_e)$	C
5cdee	$\frac{4\tilde{G}_F}{\sqrt{2}}(\bar{c}P_Rd)(\bar{e}\nu_e)$	$\mathbf{C}$
1pcdee	$\frac{4\tilde{G}_F}{\sqrt{2}}(\bar{c}P_L\gamma^\mu d)(\bar{e}\gamma_\mu\nu_e)$	$\mathbf{C}$
5pcdee	$\frac{4\tilde{G}_F}{\sqrt{2}}(\bar{c}P_Ld)(\bar{e}\nu_e)$	$\mathbf{C}$
7pcdee	$\frac{4\tilde{G}_F}{\sqrt{2}}(\bar{c}P_L\sigma^{\mu\nu}d)(\bar{e}\sigma_{\mu\nu}\nu_e)$	$\mathbf{C}$
1cdemu	$\frac{4\tilde{G}_F}{\sqrt{2}}(\bar{c}P_R\gamma^\mu d)(\bar{e}\gamma_\mu\nu_\mu)$	$\mathbf{C}$
5cdemu	$\frac{4G_F}{\sqrt{2}}(\bar{c}P_Rd)(\bar{e}\nu_\mu)$	$\mathbf{C}$
1pcdemu	$\frac{4\tilde{G}_F}{\sqrt{2}}(\bar{c}P_L\gamma^\mu d)(\bar{e}\gamma_\mu \nu_\mu)$	$\mathbf{C}$
5pcdemu	$\frac{4\tilde{G}_F}{\sqrt{2}}(\bar{c}P_Ld)(\bar{e}\nu_\mu)$	$\mathbf{C}$
7pcdemu	$\frac{4\tilde{G}_F}{\sqrt{2}}(\bar{c}P_L\sigma^{\mu\nu}d)(\bar{e}\sigma_{\mu\nu}\nu_{\mu})$	$\mathbf{C}$
1cdetau	$\frac{4\tilde{G}_F}{\sqrt{2}}(\bar{c}P_R\gamma^\mu d)(\bar{e}\gamma_\mu \nu_ au)$	$\mathbf{C}$
5cdetau	$\frac{4\tilde{G}_F}{\sqrt{2}}(\bar{c}P_Rd)(\bar{e}\nu_{ au})$	$\mathbf{C}$
1pcdetau	$rac{4 \tilde{G}_F}{\sqrt{2}} (ar{c} P_L \gamma^\mu d) (ar{e} \gamma_\mu  u_ au)$	$\mathbf{C}$
5pcdetau	$\frac{4\tilde{G}_F}{\sqrt{2}}(\bar{c}P_Ld)(\bar{e}\nu_{ au})$	$\mathbf{C}$
7pcdetau	$\frac{4\overset{\sim}{\delta_F}}{\sqrt{2}}(\bar{c}P_L\sigma^{\mu\nu}d)(\bar{e}\sigma_{\mu\nu} u_ au)$	$\mathbf{C}$

## ${\tt cdmunu}$

WC name	Operator	Type
1cdmue	$\frac{4G_F}{\sqrt{2}}(\bar{c}P_R\gamma^\mu d)(\bar{\mu}\gamma_\mu\nu_e)$	$\overline{C}$
5cdmue	$\frac{4\tilde{Q}_F^2}{\sqrt{2}}(\bar{c}P_Rd)(\bar{\mu}\nu_e)$	$^{\mathrm{C}}$
1pcdmue	$\frac{4\tilde{G}_F}{\sqrt{2}}(\bar{c}P_L\gamma^\mu d)(\bar{\mu}\gamma_\mu\nu_e)$	$\mathbf{C}$
5pcdmue	$\frac{4\tilde{G}_F}{\sqrt{2}}(\bar{c}P_Ld)(\bar{\mu}\nu_e)$	$\mathbf{C}$
7pcdmue	$\frac{4\tilde{G}_F}{\sqrt{2}}(\bar{c}P_L\sigma^{\mu\nu}d)(\bar{\mu}\sigma_{\mu\nu}\nu_e)$	$\mathbf{C}$
1cdmumu	$\frac{4\check{G}_F^c}{\sqrt{2}}(\bar{c}P_R\gamma^\mu d)(\bar{\mu}\gamma_\mu\nu_\mu)$	$\mathbf{C}$
5cdmumu	$\frac{4\tilde{G}_F}{\sqrt{2}}(\bar{c}P_Rd)(\bar{\mu}\nu_{\mu})$	$\mathbf{C}$
1pcdmumu	$\frac{4\tilde{G}_F}{\sqrt{2}}(\bar{c}P_L\gamma^\mu d)(\bar{\mu}\gamma_\mu\nu_\mu)$	$\mathbf{C}$
5pcdmumu	$\frac{4\check{G}_F}{\sqrt{2}}(\bar{c}P_Ld)(\bar{\mu} u_{\mu})$	$\mathbf{C}$
7pcdmumu	$\frac{4\check{G}_F}{\sqrt{2}}(\bar{c}P_L\sigma^{\mu\nu}d)(\bar{\mu}\sigma_{\mu\nu}\nu_{\mu})$	$\mathbf{C}$
1cdmutau	$\frac{4\check{G}_F}{\sqrt{2}}(\bar{c}P_R\gamma^\mu d)(\bar{\mu}\gamma_\mu\nu_ au)$	$\mathbf{C}$
5cdmutau	$\frac{4\check{G}_F}{\sqrt{2}}(\bar{c}P_Rd)(\bar{\mu}\nu_{\tau})$	$\mathbf{C}$
1pcdmutau	$\frac{4\tilde{Q}_F^2}{\sqrt{2}}(\bar{c}P_L\gamma^\mu d)(\bar{\mu}\gamma_\mu u_ au)$	$^{\mathrm{C}}$
5pcdmutau	$\frac{4\tilde{Q}_F^2}{\sqrt{2}}(\bar{c}P_Ld)(\bar{\mu} u_{ au})$	$^{\mathrm{C}}$
7pcdmutau	$rac{4\widetilde{G}_F^2}{\sqrt{2}}(ar{c}P_L\sigma^{\mu u}d)(ar{\mu}\sigma_{\mu u} u_ au)$	С

## cdtaunu

WC name	Operator	Type
1cdtaue	$\frac{4G_F}{\sqrt{2}}(\bar{c}P_R\gamma^\mu d)(\bar{\tau}\gamma_\mu\nu_e)$	C
5cdtaue	$\frac{4\widetilde{G}_F^2}{\sqrt{2}}(\bar{c}P_Rd)(\bar{\tau}\nu_e)$	$\mathbf{C}$
1pcdtaue	$\frac{4\widetilde{G}_F}{\sqrt{2}}(\bar{c}P_L\gamma^\mu d)(\bar{\tau}\gamma_\mu\nu_e)$	$\mathbf{C}$
5pcdtaue	$\frac{4\tilde{G}_F}{\sqrt{2}}(\bar{c}P_Ld)(\bar{\tau}\nu_e)$	$^{\mathrm{C}}$
7pcdtaue	$\frac{4\widetilde{G_F}}{\sqrt{2}}(\bar{c}P_L\sigma^{\mu\nu}d)(\bar{\tau}\sigma_{\mu\nu}\nu_e)$	$^{\mathrm{C}}$
1cdtaumu	$\frac{4\tilde{G}_F}{\sqrt{2}}(\bar{c}P_R\gamma^\mu d)(\bar{\tau}\gamma_\mu\nu_\mu)$	$^{\mathrm{C}}$
5cdtaumu	$\frac{4G_F}{\sqrt{2}}(\bar{c}P_Rd)(\bar{\tau}\nu_\mu)$	$\mathbf{C}$
1pcdtaumu	$\frac{4\widetilde{G_F}}{\sqrt{2}}(\bar{c}P_L\gamma^\mu d)(\bar{\tau}\gamma_\mu\nu_\mu)$	$^{\mathrm{C}}$
5pcdtaumu	$\frac{4G_F}{\sqrt{2}}(\bar{c}P_Ld)(\bar{\tau} u_\mu)$	$^{\mathrm{C}}$
7pcdtaumu	$\frac{4G_F}{\sqrt{2}}(\bar{c}P_L\sigma^{\mu\nu}d)(\bar{\tau}\sigma_{\mu\nu}\nu_{\mu})$	$\mathbf{C}$
1cdtautau	$\frac{4\widetilde{G}_F}{\sqrt{2}}(\bar{c}P_R\gamma^\mu d)(\bar{\tau}\gamma_\mu  u_ au)$	$\mathbf{C}$
5cdtautau	$\frac{4\widetilde{G}_F}{\sqrt{2}}(\bar{c}P_Rd)(\bar{\tau} u_{ au})$	$\mathbf{C}$
1pcdtautau	$\frac{4\widetilde{G}_F}{\sqrt{2}}(\bar{c}P_L\gamma^\mu d)(\bar{\tau}\gamma_\mu  u_ au)$	$\mathbf{C}$
5pcdtautau	$\frac{4\tilde{G}_F^2}{\sqrt{2}}(\bar{c}P_Ld)(\bar{ au} u_ au)$	$\mathbf{C}$
7pcdtautau	$\frac{4\overleftarrow{Q_F}}{\sqrt{2}}(\bar{c}P_L\sigma^{\mu\nu}d)(\bar{\tau}\sigma_{\mu\nu}\nu_{\tau})$	С

## ${\tt cbenu}$

WC name	Operator	Type
1cbee	$\frac{4G_F}{\sqrt{2}}(\bar{c}P_R\gamma^{\mu}b)(\bar{e}\gamma_{\mu}\nu_e)$	C
5cbee	$\frac{4\tilde{G}_F}{\sqrt{2}}(\bar{c}P_Rb)(\bar{e}\nu_e)$	$\mathbf{C}$
1pcbee	$\frac{4G_F}{\sqrt{2}}(\bar{c}P_L\gamma^{\mu}b)(\bar{e}\gamma_{\mu}\nu_e)$	$\mathbf{C}$
5pcbee	$\frac{4G_F}{\sqrt{2}}(\bar{c}P_Lb)(\bar{e}\nu_e)$	$\mathbf{C}$
7pcbee	$\frac{4G_F}{\sqrt{2}}(\bar{c}P_L\sigma^{\mu\nu}b)(\bar{e}\sigma_{\mu\nu}\nu_e)$	$\mathbf{C}$
1cbemu	$\frac{4G_F^2}{\sqrt{2}}(\bar{c}P_R\gamma^{\mu}b)(\bar{e}\gamma_{\mu}\nu_{\mu})$	$\mathbf{C}$
5cbemu	$\frac{4\tilde{G}_F}{\sqrt{2}}(\bar{c}P_Rb)(\bar{e}\nu_\mu)$	$\mathbf{C}$
1pcbemu	$\frac{4G_F}{\sqrt{2}}(\bar{c}P_L\gamma^{\mu}b)(\bar{e}\gamma_{\mu}\nu_{\mu})$	$\mathbf{C}$
5pcbemu	$\frac{4\tilde{G}_F}{\sqrt{2}}(\bar{c}P_Lb)(\bar{e}\nu_\mu)$	$\mathbf{C}$
7pcbemu	$\frac{4\tilde{G}_F}{\sqrt{2}}(\bar{c}P_L\sigma^{\mu\nu}b)(\bar{e}\sigma_{\mu\nu}\nu_{\mu})$	$\mathbf{C}$
1cbetau	$\frac{4\tilde{G}_F}{\sqrt{2}}(\bar{c}P_R\gamma^{\mu}b)(\bar{e}\gamma_{\mu}\nu_{\tau})$	$\mathbf{C}$
5cbetau	$\frac{4G_F}{\sqrt{2}}(\bar{c}P_Rb)(\bar{e}\nu_{\tau})$	$\mathbf{C}$
1pcbetau	$\frac{4G_F}{\sqrt{2}}(\bar{c}P_L\gamma^{\mu}b)(\bar{e}\gamma_{\mu}\nu_{\tau})$	$\mathbf{C}$
5pcbetau	$\frac{4 \tilde{G}_F}{\sqrt{2}} (\bar{c} P_L b) (\bar{e} \nu_\tau)$	$\mathbf{C}$
7pcbetau	$\frac{4\tilde{G}_F}{\sqrt{2}}(\bar{c}P_L\sigma^{\mu\nu}b)(\bar{e}\sigma_{\mu\nu}\nu_{\tau})$	С

## cbmunu

WC name	Operator	Type
1cbmue	$\frac{4G_F}{\sqrt{2}}(\bar{c}P_R\gamma^{\mu}b)(\bar{\mu}\gamma_{\mu}\nu_e)$	C
5cbmue	$\frac{4\widetilde{G}_F}{\sqrt{2}}(\bar{c}P_Rb)(\bar{\mu}\nu_e)$	$^{\mathrm{C}}$
1pcbmue	$\frac{4G_F}{\sqrt{2}}(\bar{c}P_L\gamma^{\mu}b)(\bar{\mu}\gamma_{\mu}\nu_e)$	$^{\mathrm{C}}$
5pcbmue	$\frac{4\tilde{G}_F}{\sqrt{2}}(\bar{c}P_Lb)(\bar{\mu}\nu_e)$	$^{\mathrm{C}}$
7pcbmue	$\frac{4G_F}{\sqrt{2}}(\bar{c}P_L\sigma^{\mu\nu}b)(\bar{\mu}\sigma_{\mu\nu}\nu_e)$	$^{\mathrm{C}}$
1cbmumu	$\frac{4\tilde{G}_F}{\sqrt{2}}(\bar{c}P_R\gamma^{\mu}b)(\bar{\mu}\gamma_{\mu}\nu_{\mu})$	$^{\mathrm{C}}$
5cbmumu	$\frac{4G_F}{\sqrt{2}}(\bar{c}P_Rb)(\bar{\mu}\nu_{\mu})$	$\mathbf{C}$
1pcbmumu	$\frac{4\widetilde{G_F}}{\sqrt{2}}(\bar{c}P_L\gamma^\mu b)(\bar{\mu}\gamma_\mu  u_\mu)$	$^{\mathrm{C}}$
5pcbmumu	$\frac{4G_F}{\sqrt{2}}(\bar{c}P_Lb)(\bar{\mu}\nu_{\mu})$	$^{\mathrm{C}}$
7pcbmumu	$\frac{4G_F}{\sqrt{2}}(\bar{c}P_L\sigma^{\mu\nu}b)(\bar{\mu}\sigma_{\mu\nu}\nu_{\mu})$	$\mathbf{C}$
1cbmutau	$\frac{4\widetilde{G_F}}{\sqrt{2}}(\bar{c}P_R\gamma^{\mu}b)(\bar{\mu}\gamma_{\mu}\nu_{ au})$	$\mathbf{C}$
5cbmutau	$\frac{4\widetilde{G}_F}{\sqrt{2}}(\bar{c}P_Rb)(\bar{\mu}\nu_{ au})$	$^{\mathrm{C}}$
1pcbmutau	$\frac{4\widetilde{G}_F}{\sqrt{2}}(\bar{c}P_L\gamma^\mu b)(\bar{\mu}\gamma_\mu  u_ au)$	$^{\mathrm{C}}$
5pcbmutau	$\frac{4\widetilde{G}_F}{\sqrt{2}}(\bar{c}P_Lb)(\bar{\mu}\nu_{ au})$	$^{\mathrm{C}}$
7pcbmutau	$\frac{4\mathring{G}_F^2}{\sqrt{2}}(\bar{c}P_L\sigma^{\mu\nu}b)(\bar{\mu}\sigma_{\mu\nu}\nu_\tau)$	C

## cbtaunu

WC name	Operator	Type
1cbtaue	$\frac{4G_F}{\sqrt{2}}(\bar{c}P_R\gamma^{\mu}b)(\bar{\tau}\gamma_{\mu}\nu_e)$	
5cbtaue	$\frac{4\widetilde{G}_F^2}{\sqrt{2}}(\bar{c}P_Rb)(\bar{\tau}\nu_e)$	$\mathbf{C}$
1pcbtaue	$\frac{4G_F}{\sqrt{2}}(\bar{c}P_L\gamma^{\mu}b)(\bar{\tau}\gamma_{\mu}\nu_e)$	$\mathbf{C}$
5pcbtaue	$\frac{4\tilde{G}_F}{\sqrt{2}}(\bar{c}P_Lb)(\bar{\tau}\nu_e)$	$\mathbf{C}$
7pcbtaue	$\frac{4G_F}{\sqrt{2}}(\bar{c}P_L\sigma^{\mu\nu}b)(\bar{\tau}\sigma_{\mu\nu}\nu_e)$	$\mathbf{C}$
1cbtaumu	$\frac{4G_F}{\sqrt{2}}(\bar{c}P_R\gamma^\mu b)(\bar{\tau}\gamma_\mu  u_\mu)$	$\mathbf{C}$
5cbtaumu	$\frac{4\overset{\circ}{G_F}}{\sqrt{2}}(\bar{c}P_Rb)(\bar{\tau}\nu_\mu)$	$\mathbf{C}$
1pcbtaumu	$\frac{4 \overset{\sim}{G_F}}{\sqrt{2}} (\bar{c} P_L \gamma^\mu b) (\bar{\tau} \gamma_\mu \nu_\mu)$	$\mathbf{C}$
5pcbtaumu	$\frac{4\overset{\circ}{G_F}}{\sqrt{2}}(\bar{c}P_Lb)(\bar{\tau}\nu_\mu)$	$\mathbf{C}$
7pcbtaumu	$\frac{4 \overset{\circ}{G_F}}{\sqrt{2}} (\bar{c} P_L \sigma^{\mu\nu} b) (\bar{\tau} \sigma_{\mu\nu} \nu_{\mu})$	$\mathbf{C}$
1cbtautau	$\frac{4 \overset{\leftarrow}{G_F}}{\sqrt{2}} (\bar{c} P_R \gamma^{\mu} b) (\bar{\tau} \gamma_{\mu} \nu_{\tau})$	$\mathbf{C}$
5cbtautau	$\frac{4G_F}{\sqrt{2}}(\bar{c}P_Rb)(\bar{\tau}\nu_{\tau})$	$^{\mathrm{C}}$
1pcbtautau	$\frac{4G_F}{\sqrt{2}}(\bar{c}P_L\gamma^\mu b)(\bar{\tau}\gamma_\mu  u_ au)$	$^{\mathrm{C}}$
5pcbtautau	$\frac{4\tilde{G}_F}{\sqrt{2}}(\bar{c}P_Lb)(\bar{\tau}\nu_{\tau})$	$\mathbf{C}$
7pcbtautau	$\frac{4\tilde{G}_F}{\sqrt{2}}(\bar{c}P_L\sigma^{\mu\nu}b)(\bar{\tau}\sigma_{\mu\nu}\nu_{\tau})$	С

## sbuc

WC name	Operator	Type
1sbuc	$\frac{4G_F}{\sqrt{2}}(\bar{s}P_R\gamma_\mu b)(\bar{u}\gamma^\mu c)$	C
2sbuc	$\frac{4\tilde{Q}_F^C}{\sqrt{2}}(\bar{s}P_R\gamma_\mu T^A b)(\bar{u}\gamma^\mu T^A c)$	$\mathbf{C}$
3sbuc	$\frac{4\tilde{G}_F}{\sqrt{2}}(\bar{s}P_R\gamma_{\mu\nu\rho}b)(\bar{u}\gamma^{\mu\nu\rho}c)$	$\mathbf{C}$
4sbuc	$\frac{4\tilde{G}_F}{\sqrt{2}}(\bar{s}P_R\gamma_{\mu\nu\rho}T^Ab)(\bar{u}\gamma^{\mu\nu\rho}T^Ac)$	$\mathbf{C}$
5sbuc	$\frac{4\tilde{Q}_F}{\sqrt{2}}(\bar{s}P_Rb)(\bar{u}c)$	$\mathbf{C}$
6sbuc	$\frac{4\tilde{G}_F}{\sqrt{2}}(\bar{s}P_RT^Ab)(\bar{u}T^Ac)$	$\mathbf{C}$
7sbuc	$\frac{4\tilde{G}_F}{\sqrt{2}}(\bar{s}P_R\sigma^{\mu\nu}b)(\bar{u}\sigma_{\mu\nu}c)$	$\mathbf{C}$
8sbuc	$\frac{4\tilde{G}_F}{\sqrt{2}}(\bar{s}P_R\sigma^{\mu\nu}T^Ab)(\bar{u}\sigma_{\mu\nu}T^Ac)$	$\mathbf{C}$
9sbuc	$\frac{4\tilde{Q}_F^{\sigma}}{\sqrt{2}}(\bar{s}P_R\gamma_{\mu\nu\rho\sigma}b)(\bar{u}\gamma^{\mu\nu\rho\sigma}c)$	$\mathbf{C}$
10sbuc	$\frac{4\tilde{Q}_F^{\sigma}}{\sqrt{2}}(\bar{s}P_R\gamma_{\mu\nu\rho\sigma}T^Ab)(\bar{u}\gamma^{\mu\nu\rho\sigma}T^Ac)$	$\mathbf{C}$
1psbuc	$\frac{4\tilde{G}_F}{\sqrt{2}}(\bar{s}P_L\gamma_\mu b)(\bar{u}\gamma^\mu c)$	$\mathbf{C}$
2psbuc	$\frac{4\tilde{Q}_F}{\sqrt{2}}(\bar{s}P_L\gamma_\mu T^A b)(\bar{u}\gamma^\mu T^A c)$	$\mathbf{C}$
3psbuc	$\frac{4\tilde{Q}_F}{\sqrt{2}}(\bar{s}P_L\gamma_{\mu\nu\rho}b)(\bar{u}\gamma^{\mu\nu\rho}c)$	$\mathbf{C}$
4psbuc	$\frac{4\tilde{Q}_F}{\sqrt{2}}(\bar{s}P_L\gamma_{\mu\nu\rho}T^Ab)(\bar{u}\gamma^{\mu\nu\rho}T^Ac)$	$\mathbf{C}$
5psbuc	$\frac{4\tilde{Q}_F}{\sqrt{2}}(\bar{s}P_Lb)(\bar{u}c)$	$\mathbf{C}$
6psbuc	$\frac{4\tilde{G}_F}{\sqrt{2}}(\bar{s}P_LT^Ab)(\bar{u}T^Ac)$	$\mathbf{C}$
7psbuc	$\frac{4\tilde{G}_F}{\sqrt{2}}(\bar{s}P_L\sigma^{\mu\nu}b)(\bar{u}\sigma_{\mu\nu}c)$	$\mathbf{C}$
8psbuc	$\frac{4\tilde{G}_F}{\sqrt{2}}(\bar{s}P_L\sigma^{\mu\nu}T^Ab)(\bar{u}\sigma_{\mu\nu}T^Ac)$	$\mathbf{C}$
9psbuc	$\frac{4\overset{\zeta G_F}{\sqrt{2}}}{\sqrt{2}}(\bar{s}P_L\gamma_{\mu\nu\rho\sigma}b)(\bar{u}\gamma^{\mu\nu\rho\sigma}c)$	$\mathbf{C}$
10psbuc	$\frac{4\overleftarrow{G_F}}{\sqrt{2}}(\bar{s}P_L\gamma_{\mu\nu\rho\sigma}T^Ab)(\bar{u}\gamma^{\mu\nu\rho\sigma}T^Ac)$	$\mathbf{C}$

## sbcu

WC name	Operator	Type
1sbcu	$\frac{4G_F}{\sqrt{2}}(\bar{s}P_R\gamma_\mu b)(\bar{c}\gamma^\mu u)$	C
2sbcu	$\frac{\frac{4G_F}{\sqrt{2}}(\bar{s}P_R\gamma_\mu b)(\bar{c}\gamma^\mu u)}{\frac{4G_F}{\sqrt{2}}(\bar{s}P_R\gamma_\mu T^A b)(\bar{c}\gamma^\mu T^A u)}$	$\mathbf{C}$
3sbcu	$\frac{4G_F}{\sqrt{c}}(\bar{s}P_R\gamma_{\mu\nu\rho}b)(\bar{c}\gamma^{\mu\nu\rho}u)$	$\mathbf{C}$
4sbcu	$\frac{4G_F}{\sqrt{2}}(\bar{s}P_R\gamma_{\mu\nu\rho}T^Ab)(\bar{c}\gamma^{\mu\nu\rho}T^Au)$	$\mathbf{C}$
5sbcu	$\frac{4\tilde{Q}_F}{\sqrt{2}}(\bar{s}P_Rb)(\bar{c}u)$	$\mathbf{C}$
6sbcu	$\frac{4\tilde{Q}_F^C}{\sqrt{2}}(\bar{s}P_RT^Ab)(\bar{c}T^Au)$	$\mathbf{C}$
7sbcu	$\frac{4\tilde{G}_F}{\sqrt{2}}(\bar{s}P_R\sigma^{\mu\nu}b)(\bar{c}\sigma_{\mu\nu}u)$	$\mathbf{C}$
8sbcu	$\frac{4Q_F^2}{\sqrt{2}}(\bar{s}P_R\sigma^{\mu\nu}T^Ab)(\bar{c}\sigma_{\mu\nu}T^Au)$	$\mathbf{C}$
9sbcu	$\frac{4Q_F^{\sigma}}{\sqrt{2}}(\bar{s}P_R\gamma_{\mu\nu\rho\sigma}b)(\bar{c}\gamma^{\mu\nu\rho\sigma}u)$	$\mathbf{C}$
10sbcu	$\begin{array}{l} \frac{\sqrt[4]{G_F}}{\sqrt[4]{2}}(\bar{s}P_R\sigma^{\mu\nu}b)(\bar{c}\sigma_{\mu\nu}u) \\ \frac{4G_F}{\sqrt[4]{2}}(\bar{s}P_R\sigma^{\mu\nu}T^Ab)(\bar{c}\sigma_{\mu\nu}T^Au) \\ \frac{4G_F}{\sqrt[4]{2}}(\bar{s}P_R\gamma_{\mu\nu\rho\sigma}b)(\bar{c}\gamma^{\mu\nu\rho\sigma}u) \\ \frac{4G_F}{\sqrt[4]{2}}(\bar{s}P_R\gamma_{\mu\nu\rho\sigma}T^Ab)(\bar{c}\gamma^{\mu\nu\rho\sigma}T^Au) \end{array}$	$\mathbf{C}$

WC name	Operator	Type
1psbcu	$\frac{4G_F}{\sqrt{2}}(\bar{s}P_L\gamma_\mu b)(\bar{c}\gamma^\mu u)$	
2psbcu	$\begin{array}{l} \frac{\sqrt{2}}{4G_F}(\bar{s}P_L\gamma_\mu T^Ab)(\bar{c}\gamma^\mu T^Au) \\ \frac{4G_F}{\sqrt{2}}(\bar{s}P_L\gamma_{\mu\nu\rho}b)(\bar{c}\gamma^{\mu\nu\rho}u) \\ \frac{4G_F}{\sqrt{2}}(\bar{s}P_L\gamma_{\mu\nu\rho}T^Ab)(\bar{c}\gamma^{\mu\nu\rho}T^Au) \end{array}$	$\mathbf{C}$
3psbcu	$\frac{4G_F}{\sqrt{2}}(\bar{s}P_L\gamma_{\mu\nu\rho}b)(\bar{c}\gamma^{\mu\nu\rho}u)$	$\mathbf{C}$
4psbcu	$\frac{4\bar{G}_F}{\sqrt{2}}(\bar{s}P_L\gamma_{\mu\nu\rho}T^Ab)(\bar{c}\gamma^{\mu\nu\rho}T^Au)$	$\mathbf{C}$
5psbcu	$\frac{4\tilde{G}_F}{\sqrt{2}}(\bar{s}P_Lb)(\bar{c}u)$	$^{\mathrm{C}}$
6psbcu	$\frac{4\check{G}_F}{\sqrt{2}}(\bar{s}P_LT^Ab)(\bar{c}T^Au)$	$^{\mathrm{C}}$
7psbcu	$\frac{4\check{G}_F}{\sqrt{2}}(\bar{s}P_L\sigma^{\mu\nu}b)(\bar{c}\sigma_{\mu\nu}u)$	$^{\mathrm{C}}$
8psbcu	$\frac{4G_F}{\sqrt{2}}(\bar{s}P_L\sigma^{\mu\nu}T^Ab)(\bar{c}\sigma_{\mu\nu}T^Au)$	$^{\mathrm{C}}$
9psbcu	$\frac{4\check{G}_F}{\sqrt{2}}(\bar{s}P_L\gamma_{\mu\nu\rho\sigma}b)(\bar{c}\gamma^{\mu\nu\rho\sigma}u)$	$^{\mathrm{C}}$
10psbcu	$\frac{4\tilde{G}_F}{\sqrt{2}}(\bar{s}P_L\gamma_{\mu\nu\rho\sigma}T^Ab)(\bar{c}\gamma^{\mu\nu\rho\sigma}T^Au)$	$\mathbf{C}$

## ${\tt dbuc}$

WC name	Operator	Type
1dbuc	$\frac{4G_F}{\sqrt{2}}(\bar{d}P_R\gamma_\mu b)(\bar{u}\gamma^\mu c)$	С
2dbuc	$\frac{4\tilde{Q}_F^C}{\sqrt{2}}(\bar{d}P_R\gamma_\mu T^A b)(\bar{u}\gamma^\mu T^A c)$	$\mathbf{C}$
3dbuc	$\frac{4\tilde{Q}_F}{\sqrt{2}}(\bar{d}P_R\gamma_{\mu\nu\rho}b)(\bar{u}\gamma^{\mu\nu\rho}c)$	$\mathbf{C}$
4dbuc	$\frac{4\tilde{Q}_F}{\sqrt{2}}(\bar{d}P_R\gamma_{\mu\nu\rho}T^Ab)(\bar{u}\gamma^{\mu\nu\rho}T^Ac)$	$\mathbf{C}$
5dbuc	$\frac{4\tilde{Q}_F}{\sqrt{2}}(\bar{d}P_Rb)(\bar{u}c)$	$^{\mathrm{C}}$
6dbuc	$\frac{4\tilde{G}_F}{\sqrt{2}}(\bar{d}P_RT^Ab)(\bar{u}T^Ac)$	$^{\mathrm{C}}$
7dbuc	$\frac{4 \overleftarrow{Q_F}}{\sqrt{2}} (\bar{d} P_R \sigma^{\mu \nu} b) (\bar{u} \sigma_{\mu \nu} c)$	$^{\mathrm{C}}$
8dbuc	$\frac{4\tilde{G}_F}{\sqrt{2}}(\bar{d}P_R\sigma^{\mu\nu}T^Ab)(\bar{u}\sigma_{\mu\nu}T^Ac)$	$\mathbf{C}$
9dbuc	$\frac{4\tilde{G}_F}{\sqrt{2}}(\bar{d}P_R\gamma_{\mu\nu\rho\sigma}b)(\bar{u}\gamma^{\mu\nu\rho\sigma}c)$	$^{\mathrm{C}}$
10dbuc	$\frac{4\tilde{G}_F}{\sqrt{2}}(\bar{d}P_R\gamma_{\mu\nu\rho\sigma}T^Ab)(\bar{u}\gamma^{\mu\nu\rho\sigma}T^Ac)$	$^{\mathrm{C}}$
1pdbuc	$\frac{4 \overleftarrow{Q_F}}{\sqrt{2}} (\bar{d} P_L \gamma_\mu b) (\bar{u} \gamma^\mu c)$	$^{\mathrm{C}}$
2pdbuc	$\frac{4G_F}{\sqrt{2}}(\bar{d}P_L\gamma_\mu T^A b)(\bar{u}\gamma^\mu T^A c)$	$^{\mathrm{C}}$
3pdbuc	$\frac{4\tilde{Q}_F}{\sqrt{2}}(\bar{d}P_L\gamma_{\mu\nu\rho}b)(\bar{u}\gamma^{\mu\nu\rho}c)$	$^{\mathrm{C}}$
4pdbuc	$\frac{4\tilde{Q}_F}{\sqrt{2}}(\bar{d}P_L\gamma_{\mu\nu\rho}T^Ab)(\bar{u}\gamma^{\mu\nu\rho}T^Ac)$	$^{\mathrm{C}}$
5pdbuc	$\frac{4\tilde{Q}_F}{\sqrt{2}}(\bar{d}P_Lb)(\bar{u}c)$	$^{\mathrm{C}}$
6pdbuc	$\frac{4\tilde{G}_F}{\sqrt{2}}(\bar{d}P_LT^Ab)(\bar{u}T^Ac)$	$^{\mathrm{C}}$
7pdbuc	$\frac{4G_F}{\sqrt{2}}(\bar{d}P_L\sigma^{\mu\nu}b)(\bar{u}\sigma_{\mu\nu}c)$	$^{\mathrm{C}}$
8pdbuc	$\frac{4Q_F^2}{\sqrt{2}}(\bar{d}P_L\sigma^{\mu\nu}T^Ab)(\bar{u}\sigma_{\mu\nu}T^Ac)$	$^{\mathrm{C}}$
9pdbuc	$\frac{4\overset{Q^{\prime}}{G_{F}}}{\sqrt{2}}(\bar{d}P_{L}\gamma_{\mu\nu\rho\sigma}b)(\bar{u}\gamma^{\mu\nu\rho\sigma}c)$	$\mathbf{C}$
10pdbuc	$\frac{4\tilde{G}_F}{\sqrt{2}}(\bar{d}P_L\gamma_{\mu\nu\rho\sigma}T^Ab)(\bar{u}\gamma^{\mu\nu\rho\sigma}T^Ac)$	$\mathbf{C}$

## dbcu

WC name	Operator	Type
1dbcu	$\frac{4G_F}{\sqrt{2}}(\bar{d}P_R\gamma_\mu b)(\bar{c}\gamma^\mu u)$	$\overline{C}$
2dbcu	$\frac{4\tilde{G}_{F}^{\sigma}}{\sqrt{2}}(\bar{d}P_{R}\gamma_{\mu}T^{A}b)(\bar{c}\gamma^{\mu}T^{A}u)$	$^{\mathrm{C}}$
3dbcu	$\frac{4\tilde{G}_F}{\sqrt{2}}(\bar{d}P_R\gamma_{\mu\nu\rho}b)(\bar{c}\gamma^{\mu\nu\rho}u)$	$\mathbf{C}$
4dbcu	$\frac{4\tilde{G}_F}{\sqrt{2}}(\bar{d}P_R\gamma_{\mu\nu\rho}T^Ab)(\bar{c}\gamma^{\mu\nu\rho}T^Au)$	$\mathbf{C}$
5dbcu	$\frac{4\ddot{G_F}}{\sqrt{2}}(\bar{d}P_Rb)(\bar{c}u)$	$\mathbf{C}$
6dbcu	$\frac{4\tilde{G}_F}{\sqrt{2}}(\bar{d}P_RT^Ab)(\bar{c}T^Au)$	$\mathbf{C}$
7dbcu	$\frac{4\tilde{G}_F}{\sqrt{2}}(\bar{d}P_R\sigma^{\mu\nu}b)(\bar{c}\sigma_{\mu\nu}u)$	$\mathbf{C}$
8dbcu	$\frac{4\tilde{G}_F}{\sqrt{2}}(\bar{d}P_R\sigma^{\mu\nu}T^Ab)(\bar{c}\sigma_{\mu\nu}T^Au)$	$\mathbf{C}$
9dbcu	$\frac{4\tilde{G}_F}{\sqrt{2}}(\bar{d}P_R\gamma_{\mu\nu\rho\sigma}b)(\bar{c}\gamma^{\mu\nu\rho\sigma}u)$	$\mathbf{C}$
10dbcu	$\frac{4G_F}{\sqrt{2}}(\bar{d}P_R\gamma_{\mu\nu\rho\sigma}T^Ab)(\bar{c}\gamma^{\mu\nu\rho\sigma}T^Au)$	$\mathbf{C}$
1pdbcu	$\frac{4\ddot{G_F}}{\sqrt{2}}(\bar{d}P_L\gamma_\mu b)(\bar{c}\gamma^\mu u)$	$\mathbf{C}$
2pdbcu	$\frac{4G_F}{\sqrt{2}}(\bar{d}P_L\gamma_\mu T^A b)(\bar{c}\gamma^\mu T^A u)$	$\mathbf{C}$
3pdbcu	$\frac{4G_F}{\sqrt{2}}(\bar{d}P_L\gamma_{\mu\nu\rho}b)(\bar{c}\gamma^{\mu\nu\rho}u)$	$\mathbf{C}$
4pdbcu	$\frac{4\tilde{G}_F}{\sqrt{2}}(\bar{d}P_L\gamma_{\mu\nu\rho}T^Ab)(\bar{c}\gamma^{\mu\nu\rho}T^Au)$	$\mathbf{C}$
5pdbcu	$\frac{4G_F}{\sqrt{2}}(\bar{d}P_Lb)(\bar{c}u)$	$\mathbf{C}$
6pdbcu	$\frac{4\tilde{G}_F}{\sqrt{2}}(\bar{d}P_LT^Ab)(\bar{c}T^Au)$	$\mathbf{C}$
7pdbcu	$\frac{4\ddot{G_F}}{\sqrt{2}}(\bar{d}P_L\sigma^{\mu\nu}b)(\bar{c}\sigma_{\mu\nu}u)$	$\mathbf{C}$
8pdbcu	$\frac{4G_F}{\sqrt{2}}(\bar{d}P_L\sigma^{\mu\nu}T^Ab)(\bar{c}\sigma_{\mu\nu}T^Au)$	$\mathbf{C}$
9pdbcu	$\frac{4\tilde{G}_F}{\sqrt{2}}(\bar{d}P_L\gamma_{\mu\nu\rho\sigma}b)(\bar{c}\gamma^{\mu\nu\rho\sigma}u)$	$\mathbf{C}$
10pdbcu	$\frac{4\tilde{G}_F}{\sqrt{2}}(\bar{d}P_L\gamma_{\mu\nu\rho\sigma}T^Ab)(\bar{c}\gamma^{\mu\nu\rho\sigma}T^Au)$	С

## sbsd

WC name	Operator	Type
1sbsd	$\frac{4G_F}{\sqrt{2}}(\bar{s}\gamma_\mu P_L b)(\bar{s}\gamma^\mu d)$	С
1psbsd	$\frac{\frac{1}{\sqrt{2}}(s\gamma_{\mu}\Gamma_{L}b)(s\gamma^{\mu}d)}{\frac{4G_{F}}{\sqrt{2}}(\bar{s}\gamma_{\mu}P_{R}b)(\bar{s}\gamma^{\mu}d)}$ $\frac{4G_{F}}{\sqrt{2}}(\bar{s}\gamma_{\mu\nu\rho}P_{L}b)(\bar{s}\gamma^{\mu\nu\rho}d)$	$^{\mathrm{C}}$
3sbsd	$\frac{4\tilde{G}_F}{\sqrt{2}}(\bar{s}\gamma_{\mu\nu\rho}P_Lb)(\bar{s}\gamma^{\mu\nu\rho}d)$	$^{\mathrm{C}}$
3psbsd	$\frac{4\tilde{G}_F}{\sqrt{2}}(\bar{s}\gamma_{\mu\nu\rho}P_Rb)(\bar{s}\gamma^{\mu\nu\rho}d)$	$^{\mathrm{C}}$
5sbsd	$\frac{4\tilde{G}_F}{\sqrt{2}}(\bar{s}P_Lb)(\bar{s}d)$	$^{\mathrm{C}}$
5psbsd	$\frac{4G_F}{\sqrt{2}}(\bar{s}P_Rb)(\bar{s}d)$	$^{\mathrm{C}}$
7sbsd	$\frac{4G_F}{\sqrt{2}}(\bar{s}\sigma^{\mu\nu}P_Lb)(\bar{s}\sigma_{\mu\nu}d)$	$^{\mathrm{C}}$
7psbsd	$\frac{4\overset{Q^2}{G_F}}{\sqrt{2}}(ar{s}\sigma^{\mu\nu}P_Rb)(ar{s}\sigma_{\mu\nu}d)$	$\mathbf{C}$
9sbsd	$\frac{4\tilde{G}_F}{\sqrt{2}}(\bar{s}\gamma_{\mu\nu\rho\sigma}P_Lb)(\bar{s}\gamma^{\mu\nu\rho\sigma}d)$	$^{\mathrm{C}}$
9psbsd	$ \frac{\frac{4\dot{G}_{F}^{F}}{\sqrt{2}}(\bar{s}\sigma^{\mu\nu}P_{R}b)(\bar{s}\sigma_{\mu\nu}d)}{\frac{4G_{F}}{\sqrt{2}}(\bar{s}\gamma_{\mu\nu\rho\sigma}P_{L}b)(\bar{s}\gamma^{\mu\nu\rho\sigma}d)} \\ \frac{4G_{F}}{\sqrt{2}}(\bar{s}\gamma_{\mu\nu\rho\sigma}P_{R}b)(\bar{s}\gamma^{\mu\nu\rho\sigma}d) $	$\mathbf{C}$

## dbds

WC name	Operator	Type
1dbds	$\frac{4G_F}{\sqrt{2}}(\bar{d}\gamma_\mu P_L b)(\bar{d}\gamma^\mu s)$	C
1pdbds	$\frac{\frac{4G_F}{\sqrt{2}}(\bar{d}\gamma_{\mu}P_Rb)(\bar{d}\gamma^{\mu}s)}{\frac{4G_F}{\sqrt{2}}(\bar{d}\gamma_{\mu\nu\rho}P_Lb)(\bar{d}\gamma^{\mu\nu\rho}s)}$	$\mathbf{C}$
3dbds	$\frac{4\overleftarrow{Q_F}}{\sqrt{2}}(ar{d}\gamma_{\mu u ho}P_Lb)(ar{d}\gamma^{\mu u ho}s)$	$\mathbf{C}$
3pdbds	$\frac{4 \overleftarrow{Q_F}}{\sqrt{2}} (\bar{d} \gamma_{\mu \nu \rho} P_R b) (\bar{d} \gamma^{\mu \nu \rho} s)$	$\mathbf{C}$
5dbds	$\frac{4\tilde{G}_F}{\sqrt{2}}(\bar{d}P_Lb)(\bar{d}s)$	$\mathbf{C}$
5pdbds	$\frac{4\tilde{G}_F}{\sqrt{2}}(\bar{d}P_Rb)(\bar{d}s)$	$\mathbf{C}$
7dbds	$\frac{4\tilde{G}_F}{\sqrt{2}}(ar{d}\sigma^{\mu u}P_Lb)(ar{d}\sigma_{\mu u}s)$	$\mathbf{C}$
7pdbds	$\frac{4G_F}{\sqrt{2}}(\bar{d}\sigma^{\mu\nu}P_Rb)(\bar{d}\sigma_{\mu\nu}s)$	$\mathbf{C}$
9dbds	$\frac{4\check{G}_F}{\sqrt{2}}(\bar{d}\gamma_{\mu\nu\rho\sigma}P_Lb)(\bar{d}\gamma^{\mu\nu\rho\sigma}s)$	$\mathbf{C}$
9pdbds	$\frac{\frac{4G_F^2}{\sqrt{2}}(\bar{d}\gamma_{\mu\nu\rho\sigma}P_Lb)(\bar{d}\gamma^{\mu\nu\rho\sigma}s)}{\frac{4G_F}{\sqrt{2}}(\bar{d}\gamma_{\mu\nu\rho\sigma}P_Rb)(\bar{d}\gamma^{\mu\nu\rho\sigma}s)}$	С

## sb

	$\frac{4G_F}{\sqrt{2}}\frac{e}{g^2}m_b(\bar{s}P_R\sigma_{\mu\nu}b)F^{\mu\nu}$	
	$1/2 q^2 m_0 (2 R^2 \mu \nu^2)^2$	$^{\mathrm{C}}$
8gsb	$\frac{4\tilde{G}_F}{\sqrt{2}}\frac{\tilde{g}_s}{q_s}m_b(\bar{s}P_R\sigma_{\mu\nu}T^Ab)G_A^{\mu\nu}$	$\mathbf{C}$
	$\frac{4\tilde{G}_F}{\sqrt{2}}\frac{e^s}{g^2}m_b(\bar{s}P_L\sigma_{\mu\nu}b)F^{\mu\nu}$	$\mathbf{C}$
8pgsb	$\frac{4\tilde{G}_F}{\sqrt{2}} \frac{\tilde{J}_s^s}{g_s} m_b (\bar{s} P_L \sigma_{\mu\nu} T^A b) G_A^{\mu\nu}$	$^{\mathrm{C}}$
1sbuu	$\frac{4\tilde{G}_F}{\sqrt{2}}(\bar{s}P_R\gamma_\mu b)(\bar{u}\gamma^\mu u)$	$\mathbf{C}$
2sbuu	$\frac{4\mathring{G}_{F}}{\sqrt{2}}(\bar{s}P_{R}\gamma_{\mu}T^{A}b)(\bar{u}\gamma^{\mu}T^{A}u)$	$^{\mathrm{C}}$
3sbuu	$\frac{4\mathring{G}_F}{\sqrt{2}}(\bar{s}P_R\gamma_{\mu\nu\rho}b)(\bar{u}\gamma^{\mu\nu\rho}u)$	$^{\mathrm{C}}$
4sbuu	$\frac{4\tilde{G}_F}{\sqrt{2}}(\bar{s}P_R\gamma_{\mu\nu\rho}T^Ab)(\bar{u}\gamma^{\mu\nu\rho}T^Au)$	$\mathbf{C}$
5sbuu	$\frac{4\mathring{G}_F}{\sqrt{2}}(\bar{s}P_Rb)(\bar{u}u)$	$\mathbf{C}$
6sbuu	$\frac{4\tilde{G}_F^2}{\sqrt{2}}(\bar{s}P_RT^Ab)(\bar{u}T^Au)$	$\mathbf{C}$
7sbuu	$\frac{4\tilde{G}_F}{\sqrt{2}}(\bar{s}P_R\sigma^{\mu\nu}b)(\bar{u}\sigma_{\mu\nu}u)$	$\mathbf{C}$
8sbuu	$\frac{4\tilde{G}_F}{\sqrt{2}}(\bar{s}P_R\sigma^{\mu\nu}T^Ab)(\bar{u}\sigma_{\mu\nu}T^Au)$	$\mathbf{C}$
	$\frac{4\tilde{G}_F}{\sqrt{2}}(\bar{s}P_R\gamma_{\mu\nu\rho\sigma}b)(\bar{u}\gamma^{\mu\nu\rho\sigma}u)$	$\mathbf{C}$
10sbuu	$\frac{4\tilde{G}_F}{\sqrt{2}}(\bar{s}P_R\gamma_{\mu\nu\rho\sigma}T^Ab)(\bar{u}\gamma^{\mu\nu\rho\sigma}T^Au)$	$\mathbf{C}$
1psbuu	$\frac{4\tilde{G}_F}{\sqrt{2}}(\bar{s}P_L\gamma_\mu b)(\bar{u}\gamma^\mu u)$	$\mathbf{C}$
2psbuu	$\frac{4\tilde{G}_F}{\sqrt{2}}(\bar{s}P_L\gamma_\mu T^A b)(\bar{u}\gamma^\mu T^A u)$	$\mathbf{C}$
3psbuu	$\frac{4\tilde{G}_F}{\sqrt{2}}(\bar{s}P_L\gamma_{\mu\nu\rho}b)(\bar{u}\gamma^{\mu\nu\rho}u)$	$\mathbf{C}$
4psbuu	$\frac{4\tilde{G}_F}{\sqrt{2}}(\bar{s}P_L\gamma_{\mu\nu\rho}T^Ab)(\bar{u}\gamma^{\mu\nu\rho}T^Au)$	$\mathbf{C}$
5psbuu	$\frac{4\mathring{G}_F}{\sqrt{2}}(\bar{s}P_Lb)(\bar{u}u)$	$^{\mathrm{C}}$
	$\frac{4\tilde{G}_F}{\sqrt{2}}(\bar{s}P_LT^Ab)(\bar{u}T^Au)$	$^{\mathrm{C}}$

WC name	Operator	Type
7psbuu	$\frac{4G_F}{\sqrt{2}}(\bar{s}P_L\sigma^{\mu\nu}b)(\bar{u}\sigma_{\mu\nu}u)$	C
8psbuu	$\frac{\frac{4G_F}{\sqrt{2}}(\bar{s}P_L\sigma^{\mu\nu}T^Ab)(\bar{u}\sigma_{\mu\nu}T^Au)}{\frac{4G_F}{\sqrt{2}}(\bar{s}P_L\gamma_{\mu\nu\rho\sigma}b)(\bar{u}\gamma^{\mu\nu\rho\sigma}u)}$ $\frac{\frac{4G_F}{\sqrt{2}}(\bar{s}P_L\gamma_{\mu\nu\rho\sigma}T^Ab)(\bar{u}\gamma^{\mu\nu\rho\sigma}T^Au)}{\frac{4G_F}{\sqrt{2}}(\bar{s}P_L\gamma_{\mu\nu\rho\sigma}T^Ab)}$	$\mathbf{C}$
9psbuu	$\frac{4G_F}{\sqrt{2}}(\bar{s}P_L\gamma_{\mu\nu\rho\sigma}b)(\bar{u}\gamma^{\mu\nu\rho\sigma}u)$	$^{\mathrm{C}}$
10psbuu	$\frac{4G_F}{\sqrt{2}}(\bar{s}P_L\gamma_{\mu\nu\rho\sigma}T^Ab)(\bar{u}\gamma^{\mu\nu\rho\sigma}T^Au)$	$^{\mathrm{C}}$
1sbdd	$\frac{4G_F}{\sqrt{2}}(\bar{s}P_R\gamma_\mu b)(d\gamma^\mu d)$	$^{\mathrm{C}}$
2sbdd	$\frac{4\tilde{G}_F}{\sqrt{2}}(\bar{s}P_R\gamma_\mu T^A b)(\bar{d}\gamma^\mu T^A d)$	$^{\mathrm{C}}$
3sbdd	$\frac{4G_F}{\sqrt{2}}(\bar{s}P_R\gamma_{\mu\nu\rho}b)(\bar{d}\gamma^{\mu\nu\rho}d)$	$^{\mathrm{C}}$
4sbdd	$\frac{4\bar{G_F}}{\sqrt{2}}(\bar{s}P_R\gamma_{\mu\nu\rho}T^Ab)(\bar{d}\gamma^{\mu\nu\rho}T^Ad)$	$^{\mathrm{C}}$
5sbdd	$\frac{4G_F}{\sqrt{2}}(\bar{s}P_Rb)(\bar{d}d)$	$^{\mathrm{C}}$
6sbdd	$\frac{4\bar{G_F}}{\sqrt{2}}(\bar{s}P_RT^Ab)(\bar{d}T^Ad)$	$^{\mathrm{C}}$
7sbdd	$rac{4ar{G_F}}{\sqrt{2}}(ar{s}P_R\sigma^{\mu u}b)(ar{d}\sigma_{\mu u}d)$	$\mathbf{C}$
8sbdd	$\frac{4\bar{G_F}}{\sqrt{2}}(\bar{s}P_R\sigma^{\mu\nu}T^Ab)(\bar{d}\sigma_{\mu\nu}T^Ad)$	$\mathbf{C}$
9sbdd	$\frac{\frac{4G_F}{\sqrt{2}}(\bar{s}P_R\sigma^{\mu\nu}T^Ab)(\bar{d}\sigma_{\mu\nu}T^Ad)}{\frac{4G_F}{\sqrt{2}}(\bar{s}P_R\gamma_{\mu\nu\rho\sigma}b)(\bar{d}\gamma^{\mu\nu\rho\sigma}d)}$ $\frac{\frac{4G_F}{\sqrt{2}}(\bar{s}P_R\gamma_{\mu\nu\rho\sigma}T^Ab)(\bar{d}\gamma^{\mu\nu\rho\sigma}T^Ad)}{\frac{4G_F}{\sqrt{2}}(\bar{s}P_R\gamma_{\mu\nu\rho\sigma}T^Ab)(\bar{d}\gamma^{\mu\nu\rho\sigma}T^Ad)}$	$\mathbf{C}$
10sbdd	$\frac{4\bar{G_F}}{\sqrt{2}}(\bar{s}P_R\gamma_{\mu\nu\rho\sigma}T^Ab)(\bar{d}\gamma^{\mu\nu\rho\sigma}T^Ad)$	$\mathbf{C}$
1psbdd	$rac{4reve{G_F}}{\sqrt{2}}(ar{s}P_L\gamma_\mu b)(ar{d}\gamma^\mu d)$	$\mathbf{C}$
2psbdd	$\frac{4\bar{G_F}}{\sqrt{2}}(\bar{s}P_L\gamma_\mu T^Ab)(\bar{d}\gamma^\mu T^Ad)$	$\mathbf{C}$
3psbdd	$rac{4ar{G_F}}{\sqrt{2}}(ar{s}P_L\gamma_{\mu u ho}b)(ar{d}\gamma^{\mu u ho}d)$	$\mathbf{C}$
4psbdd	$rac{4G_F}{\sqrt{2}}(ar{s}P_L\gamma_{\mu u ho}T^Ab)(ar{d}\gamma^{\mu u ho}T^Ad) \ rac{4G_F}{\sqrt{2}}(ar{s}P_Lb)(ar{d}d)$	$\mathbf{C}$
5psbdd	$\frac{4G_F}{\sqrt{2}}(\bar{s}P_Lb)(\bar{d}d)$	$\mathbf{C}$
6psbdd	$\frac{4G_F}{\sqrt{2}}(\bar{s}P_LT^Ab)(dT^Ad)$	$^{\mathrm{C}}$
7psbdd	$rac{4ar{G_F}}{\sqrt{2}}(ar{s}P_L\sigma^{\mu u}b)(ar{d}\sigma_{\mu u}d)$	$\mathbf{C}$
8psbdd	$\frac{4\widetilde{G_F}}{\sqrt{2}}(\bar{s}P_L\sigma^{\mu\nu}T^Ab)(\bar{d}\sigma_{\mu\nu}T^Ad)$	$\mathbf{C}$
9psbdd	$\frac{4\bar{G}_F}{\sqrt{2}}(\bar{s}P_L\gamma_{\mu\nu\rho\sigma}b)(\bar{d}\gamma^{\mu\nu\rho\sigma}d)$	$\mathbf{C}$
10psbdd	$\frac{\frac{4G_F}{\sqrt{2}}(\bar{s}P_L\gamma_{\mu\nu\rho\sigma}b)(\bar{d}\gamma^{\mu\nu\rho\sigma}d)}{\frac{4G_F}{\sqrt{2}}(\bar{s}P_L\gamma_{\mu\nu\rho\sigma}T^Ab)(\bar{d}\gamma^{\mu\nu\rho\sigma}T^Ad)}$	$\mathbf{C}$
1sbcc	$\frac{4G_F}{\sqrt{2}}(\bar{s}P_R\gamma_\mu b)(\bar{c}\gamma^\mu c)$	$\mathbf{C}$
2sbcc	$\frac{4G_F}{\sqrt{2}}(\bar{s}P_R\gamma_\mu T^A b)(\bar{c}\gamma^\mu T^A c)$	$^{\mathrm{C}}$
3sbcc	$\frac{4G_F}{\sqrt{2}}(\bar{s}P_R\gamma_{\mu\nu\rho}b)(\bar{c}\gamma^{\mu\nu\rho}c)$	$^{\mathrm{C}}$
4sbcc	$\frac{4G_F}{\sqrt{2}}(\bar{s}P_R\gamma_{\mu\nu\rho}T^Ab)(\bar{c}\gamma^{\mu\nu\rho}T^Ac)$	$\mathbf{C}$
5sbcc	$\frac{4G_F}{\sqrt{2}}(\bar{s}P_Rb)(\bar{c}c)$	$\mathbf{C}$
6sbcc	$\frac{4G_F}{\sqrt{2}}(\bar{s}P_RT^Ab)(\bar{c}T^Ac)$	$^{\mathrm{C}}$
7sbcc	$\frac{4G_F}{\sqrt{2}}(\bar{s}P_R\sigma^{\mu\nu}b)(\bar{c}\sigma_{\mu\nu}c)$	$^{\mathrm{C}}$
8sbcc	$\frac{4G_F}{\sqrt{2}}(\bar{s}P_R\sigma^{\mu\nu}T^Ab)(\bar{c}\sigma_{\mu\nu}T^Ac)$	$\mathbf{C}$
9sbcc	$\frac{4G_F}{\sqrt{2}}(\bar{s}P_R\gamma_{\mu\nu\rho\sigma}b)(\bar{c}\gamma^{\mu\nu\rho\sigma}c)$	$^{\mathrm{C}}$
10sbcc	$\frac{4G_F}{\sqrt{2}}(\bar{s}P_R\gamma_{\mu\nu\rho\sigma}T^Ab)(\bar{c}\gamma^{\mu\nu\rho\sigma}T^Ac)$	$^{\mathrm{C}}$
1psbcc	$\frac{4G_F}{\sqrt{2}}(\bar{s}P_L\gamma_\mu b)(\bar{c}\gamma^\mu c)$	$^{\mathrm{C}}$
2psbcc	$\frac{\sqrt{2}}{\sqrt{2}}(\bar{s}P_R \sigma^{\mu\nu}b)(\bar{c}\sigma_{\mu\nu}c)$ $\frac{4G_F}{\sqrt{2}}(\bar{s}P_R \sigma^{\mu\nu}b)(\bar{c}\sigma_{\mu\nu}c)$ $\frac{4G_F}{\sqrt{2}}(\bar{s}P_R \sigma^{\mu\nu}T^Ab)(\bar{c}\sigma_{\mu\nu}T^Ac)$ $\frac{4G_F}{\sqrt{2}}(\bar{s}P_R \gamma_{\mu\nu\rho\sigma}b)(\bar{c}\gamma^{\mu\nu\rho\sigma}c)$ $\frac{4G_F}{\sqrt{2}}(\bar{s}P_R \gamma_{\mu\nu\rho\sigma}T^Ab)(\bar{c}\gamma^{\mu\nu\rho\sigma}T^Ac)$ $\frac{4G_F}{\sqrt{2}}(\bar{s}P_L \gamma_{\mu}b)(\bar{c}\gamma^{\mu}c)$ $\frac{4G_F}{\sqrt{2}}(\bar{s}P_L \gamma_{\mu}T^Ab)(\bar{c}\gamma^{\mu}T^Ac)$ $\frac{4G_F}{\sqrt{2}}(\bar{s}P_L \gamma_{\mu\nu\rho}b)(\bar{c}\gamma^{\mu\nu\rho}c)$	$^{\mathrm{C}}$
3psbcc	$rac{4G_F}{\sqrt{2}}(ar{s}P_L\gamma_{\mu u ho}b)(ar{c}\gamma^{\mu u ho}c)$	$^{\mathrm{C}}$

WC name	Operator	Type
4psbcc	$\frac{4G_F}{\sqrt{2}}(\bar{s}P_L\gamma_{\mu\nu\rho}T^Ab)(\bar{c}\gamma^{\mu\nu\rho}T^Ac)$	C
5psbcc	$\frac{\frac{4G_F}{\sqrt{2}}(\bar{s}P_Lb)(\bar{c}c)}{\frac{4G_F}{\sqrt{2}}(\bar{s}P_LT^Ab)(\bar{c}T^Ac)}$	$\mathbf{C}$
6psbcc	$\frac{4\breve{G}_F}{\sqrt{2}}(\bar{s}P_LT^Ab)(\bar{c}T^Ac)$	$\mathbf{C}$
7psbcc	$\frac{4\tilde{G}_F}{\sqrt{2}}(\bar{s}P_L\sigma^{\mu\nu}b)(\bar{c}\sigma_{\mu\nu}c)$	$\mathbf{C}$
8psbcc	$\frac{4G_F}{\sqrt{2}}(\bar{s}P_L\sigma^{\mu\nu}T^Ab)(\bar{c}\sigma_{\mu\nu}T^Ac)$	$^{\mathrm{C}}$
9psbcc	$\frac{\frac{4\breve{G}_F}{\sqrt{2}}(\bar{s}P_L\gamma_{\mu\nu\rho\sigma}b)(\bar{c}\gamma^{\mu\nu\rho\sigma}c)}{\frac{4G_F}{\sqrt{2}}(\bar{s}P_L\gamma_{\mu\nu\rho\sigma}T^Ab)(\bar{c}\gamma^{\mu\nu\rho\sigma}T^Ac)}$	$\mathbf{C}$
10psbcc	$\frac{4\overleftarrow{G_F}}{\sqrt{2}}(\bar{s}P_L\gamma_{\mu\nu\rho\sigma}T^Ab)(\bar{c}\gamma^{\mu\nu\rho\sigma}T^Ac)$	$\mathbf{C}$
1sbbb	$rac{4reve{G}_F^c}{\sqrt{2}}(ar{s}P_R\gamma_\mu b)(ar{b}\gamma^\mu b) \ rac{4G_F}{\sqrt{2}}(ar{s}P_R\gamma_{\mu u ho}b)(ar{b}\gamma^{\mu u ho}b)$	$^{\mathrm{C}}$
3sbbb	$\frac{4\overline{G_F}}{\sqrt{2}}(\bar{s}P_R\gamma_{\mu\nu\rho}b)(\bar{b}\gamma^{\mu\nu\rho}b)$	$\mathbf{C}$
5sbbb	$\frac{4G_F}{\sqrt{2}}(\bar{s}P_Rb)(\bar{b}b)$	$\mathbf{C}$
7sbbb	$\frac{4 \overleftarrow{G_F}}{\sqrt{2}} (\bar{s} P_R \sigma^{\mu \nu} b) (\bar{b} \sigma_{\mu \nu} b)$	$\mathbf{C}$
9sbbb	$\frac{\frac{4G_F}{\sqrt{2}}(\bar{s}P_R\sigma^{\mu\nu}b)(\bar{b}\sigma_{\mu\nu}b)}{\sqrt{2}(\bar{s}P_R\gamma_{\mu\nu\rho\sigma}b)(\bar{b}\gamma^{\mu\nu\rho\sigma}b)}$	$\mathbf{C}$
1psbbb	$rac{4reve{G_F}}{\sqrt{2}}(ar{s}P_L\gamma_\mu b)(ar{b}\gamma^\mu b) \ rac{4G_F}{\sqrt{2}}(ar{s}P_L\gamma_{\mu u ho}b)(ar{b}\gamma^{\mu u ho}b)$	$\mathbf{C}$
3psbbb	$\frac{4\overleftarrow{G_F}}{\sqrt{2}}(\bar{s}P_L\gamma_{\mu\nu\rho}b)(\bar{b}\gamma^{\mu\nu\rho}b)$	$\mathbf{C}$
5psbbb	$\frac{4G_F}{\sqrt{2}}(\bar{s}P_Lb)(bb)$	$\mathbf{C}$
7psbbb	$\frac{\frac{4G_F}{\sqrt{2}}(\bar{s}P_L\sigma^{\mu\nu}b)(\bar{b}\sigma_{\mu\nu}b)}{\sqrt{2}(\bar{s}P_L\gamma_{\mu\nu\rho\sigma}b)(\bar{b}\gamma^{\mu\nu\rho\sigma}b)}$	$\mathbf{C}$
9psbbb	$\frac{4 \overleftarrow{G_F}}{\sqrt{2}} (\bar{s} P_L \gamma_{\mu\nu\rho\sigma} b) (\bar{b} \gamma^{\mu\nu\rho\sigma} b)$	$\mathbf{C}$
1sbss	$\frac{4G_F}{\sqrt{2}}(\bar{s}\gamma_\mu P_L b)(\bar{s}\gamma^\mu s)$	$\mathbf{C}$
1psbss	$\frac{\frac{4G_F}{\sqrt{2}}(\bar{s}\gamma_{\mu}P_Rb)(\bar{s}\gamma^{\mu}s)}{\frac{4G_F}{\sqrt{2}}(\bar{s}\gamma_{\mu\nu\rho}P_Lb)(\bar{s}\gamma^{\mu\nu\rho}s)}$	$\mathbf{C}$
3sbss	$\frac{4\check{G_F}}{\sqrt{2}}(\bar{s}\gamma_{\mu\nu\rho}P_Lb)(\bar{s}\gamma^{\mu\nu\rho}s)$	$\mathbf{C}$
3psbss	$\frac{4G_F}{\sqrt{2}}(\bar{s}\gamma_{\mu\nu\rho}P_Rb)(\bar{s}\gamma^{\mu\nu\rho}s)$	$\mathbf{C}$
5sbss	$rac{4 {ar G_F}}{\sqrt{2}} (ar s P_L b) (ar s s)$	$\mathbf{C}$
5psbss	$\frac{4G_F}{\sqrt{2}}(\bar{s}P_Rb)(\bar{s}s)$	$\mathbf{C}$
7sbss	$\frac{4\widetilde{Q}_F^2}{\sqrt{2}}(ar{s}\sigma^{\mu u}P_Lb)(ar{s}\sigma_{\mu u}s)$	$\mathbf{C}$
7psbss	$\frac{4\ddot{G_F}}{\sqrt{2}}(ar{s}\sigma^{\mu u}P_Rb)(ar{s}\sigma_{\mu u}s)$	$\mathbf{C}$
9sbss	$\frac{4G_F}{\sqrt{2}}(\bar{s}\gamma_{\mu\nu\rho\sigma}P_Lb)(\bar{s}\gamma^{\mu\nu\rho\sigma}s)$	$\mathbf{C}$
9psbss	$\frac{4Q_F^2}{\sqrt{2}}(\bar{s}\gamma_{\mu u ho\sigma}P_Rb)(\bar{s}\gamma^{\mu u ho\sigma}s)$	$\mathbf{C}$
1sbee	$\frac{4G_F}{\sqrt{2}}(\bar{s}P_R\gamma_\mu b)(\bar{e}\gamma^\mu e)$	$\mathbf{C}$
1psbee	$4G_F (= D = 1) (= 11 = 1$	$\mathbf{C}$
3sbee	$\frac{4\overleftarrow{G_F}}{\sqrt{2}}(\bar{s}P_R\gamma_{\mu\nu\rho}b)(\bar{e}\gamma^{\mu\nu\rho}e)$	$\mathbf{C}$
3psbee	$\frac{4 \overleftarrow{G_F}}{\sqrt{2}} (\bar{s} P_L \gamma_{\mu\nu\rho} b) (\bar{e} \gamma^{\mu\nu\rho} e)$	$^{\mathrm{C}}$
5sbee	$\frac{4\ddot{G_F}}{\sqrt{2}}(\bar{s}P_Rb)(\bar{e}e)$	$\mathbf{C}$
5psbee	$\begin{split} &\frac{-\sqrt{2}}{\sqrt{2}}(sP_L\gamma_\mu b)(e\gamma^\mu e) \\ &\frac{4G_F}{\sqrt{2}}(\bar{s}P_R\gamma_{\mu\nu\rho}b)(\bar{e}\gamma^{\mu\nu\rho}e) \\ &\frac{4G_F}{\sqrt{2}}(\bar{s}P_L\gamma_{\mu\nu\rho}b)(\bar{e}\gamma^{\mu\nu\rho}e) \\ &\frac{4G_F}{\sqrt{2}}(\bar{s}P_Rb)(\bar{e}e) \\ &\frac{4G_F}{\sqrt{2}}(\bar{s}P_Lb)(\bar{e}e) \\ &\frac{4G_F}{\sqrt{2}}(\bar{s}P_R\sigma^{\mu\nu}b)(\bar{e}\sigma_{\mu\nu}e) \\ &\frac{4G_F}{\sqrt{2}}(\bar{s}P_L\sigma^{\mu\nu}b)(\bar{e}\sigma_{\mu\nu}e) \\ &\frac{4G_F}{\sqrt{2}}(\bar{s}P_R\gamma_{\mu\nu\rho\sigma}b)(\bar{e}\gamma^{\mu\nu\rho\sigma}e) \\ &\frac{4G_F}{\sqrt{2}}(\bar{s}P_L\gamma_{\mu\nu\rho\sigma}b)(\bar{e}\gamma^{\mu\nu\rho\sigma}e) \\ &\frac{4G_F}{\sqrt{2}}(\bar{s}P_L\gamma_{\mu\nu\rho\sigma}b)(\bar{e}\gamma^{\mu\nu\rho\sigma}e) \end{split}$	$\mathbf{C}$
7sbee	$\frac{4\check{G}_F}{\sqrt{2}}(\bar{s}P_R\sigma^{\mu u}b)(\bar{e}\sigma_{\mu u}e)$	$\mathbf{C}$
7psbee	$\frac{4\ddot{G_F}}{\sqrt{2}}(\bar{s}P_L\sigma^{\mu\nu}b)(\bar{e}\sigma_{\mu\nu}e)$	$\mathbf{C}$
9sbee	$\frac{4\check{G}_F}{\sqrt{2}}(\bar{s}P_R\gamma_{\mu\nu\rho\sigma}b)(\bar{e}\gamma^{\mu\nu\rho\sigma}e)$	$\mathbf{C}$
9psbee	$\frac{4G_F}{\sqrt{2}}(\bar{s}P_L\gamma_{\mu\nu\rho\sigma}b)(\bar{e}\gamma^{\mu\nu\rho\sigma}e)$	$\mathbf{C}$

WC name	Operator	Type
1sbmumu	$\frac{4G_F}{\sqrt{2}}(\bar{s}P_R\gamma_\mu b)(\bar{\mu}\gamma^\mu\mu)$	C
1psbmumu	$\frac{4\tilde{G}_F}{\sqrt{2}}(\bar{s}P_L\gamma_\mu b)(\bar{\mu}\gamma^\mu\mu)$	$\mathbf{C}$
3sbmumu	$\frac{4\tilde{G}_F^2}{\sqrt{2}}(\bar{s}P_R\gamma_{\mu\nu\rho}b)(\bar{\mu}\gamma^{\mu\nu\rho}\mu)$	$\mathbf{C}$
3psbmumu	$\frac{4\tilde{G}_F^2}{\sqrt{2}}(\bar{s}P_L\gamma_{\mu\nu\rho}b)(\bar{\mu}\gamma^{\mu\nu\rho}\mu)$	$\mathbf{C}$
5sbmumu	$\frac{4\tilde{G}_F^2}{\sqrt{2}}(\bar{s}P_Rb)(\bar{\mu}\mu)$	$\mathbf{C}$
5psbmumu	$\frac{4\tilde{G}_F}{\sqrt{2}}(\bar{s}P_Lb)(\bar{\mu}\mu)$	$\mathbf{C}$
7sbmumu	$\frac{4\tilde{G}_F}{\sqrt{2}}(\bar{s}P_R\sigma^{\mu\nu}b)(\bar{\mu}\sigma_{\mu\nu}\mu)$	$\mathbf{C}$
7psbmumu	$\frac{4\tilde{G}_F}{\sqrt{2}}(\bar{s}P_L\sigma^{\mu\nu}b)(\bar{\mu}\sigma_{\mu\nu}\mu)$	$\mathbf{C}$
9sbmumu	$\frac{4\tilde{G}_F}{\sqrt{2}}(\bar{s}P_R\gamma_{\mu\nu\rho\sigma}b)(\bar{\mu}\gamma^{\mu\nu\rho\sigma}\mu)$	$\mathbf{C}$
9psbmumu	$\frac{4\tilde{G}_F}{\sqrt{2}}(\bar{s}P_L\gamma_{\mu\nu\rho\sigma}b)(\bar{\mu}\gamma^{\mu\nu\rho\sigma}\mu)$	$\mathbf{C}$
1sbtautau	$\frac{4\tilde{G}_F^c}{\sqrt{2}}(\bar{s}P_R\gamma_\mu b)(\bar{\tau}\gamma^\mu  au)$	$\mathbf{C}$
1psbtautau	$\frac{4\tilde{G}_F}{\sqrt{2}}(\bar{s}P_L\gamma_\mu b)(\bar{\tau}\gamma^\mu\tau)$	$\mathbf{C}$
3sbtautau	$\frac{4G_F^2}{\sqrt{2}}(\bar{s}P_R\gamma_{\mu\nu\rho}b)(\bar{\tau}\gamma^{\mu\nu\rho}\tau)$	$\mathbf{C}$
3psbtautau	$\frac{4\tilde{G}_F}{\sqrt{2}}(\bar{s}P_L\gamma_{\mu\nu\rho}b)(\bar{\tau}\gamma^{\mu\nu\rho}\tau)$	$\mathbf{C}$
5sbtautau	$\frac{4\tilde{G}_F}{\sqrt{2}}(\bar{s}P_Rb)(\bar{\tau}\tau)$	$\mathbf{C}$
5psbtautau	$\frac{4\tilde{G}_F}{\sqrt{2}}(\bar{s}P_Lb)(\bar{\tau}\tau)$	$\mathbf{C}$
7sbtautau	$\frac{4\tilde{G}_F}{\sqrt{2}}(\bar{s}P_R\sigma^{\mu\nu}b)(\bar{\tau}\sigma_{\mu\nu}\tau)$	$\mathbf{C}$
7psbtautau	$\frac{4\tilde{G}_F^2}{\sqrt{2}}(\bar{s}P_L\sigma^{\mu\nu}b)(\bar{\tau}\sigma_{\mu\nu}\tau)$	$\mathbf{C}$
9sbtautau	$\frac{4\overset{Y}{G_F}}{\sqrt{2}}(\bar{s}P_R\gamma_{\mu u ho\sigma}b)(\bar{ au}\gamma^{\mu u ho\sigma} au)$	$\mathbf{C}$
9psbtautau	$\frac{4G_F^2}{\sqrt{2}}(\bar{s}P_L\gamma_{\mu\nu\rho\sigma}b)(\bar{\tau}\gamma^{\mu\nu\rho\sigma}\tau)$	$^{\mathrm{C}}$

## db

WC name	Operator	Type
7gammadb	$\frac{4G_F}{\sqrt{2}}\frac{e}{a^2}m_b(\bar{d}P_R\sigma_{\mu\nu}b)F^{\mu\nu}$	C
8gdb	$rac{4G_F}{\sqrt{2}} rac{e}{g_s^2} m_b (\bar{d}P_R \sigma_{\mu\nu} b) F^{\mu u} \ rac{4G_F}{\sqrt{2}} rac{1}{g_s} m_b (\bar{d}P_R \sigma_{\mu u} T^A b) G_A^{\mu u}$	$^{\mathrm{C}}$
7pgammadb	$\frac{4G_F}{\sqrt{2}}\frac{e}{a^2}m_b(\bar{d}P_L\sigma_{\mu\nu}b)F^{\mu\nu}$	$^{\mathrm{C}}$
8pgdb	$rac{4G_L^2}{\sqrt{2}}rac{3}{q_s}m_b(ar{d}P_L\sigma_{\mu u}T^Ab)G_A^{\mu u}$	$\mathbf{C}$
1dbuu	$\frac{4G_F}{\sqrt{2}}(\bar{d}P_R\gamma_\mu b)(\bar{u}\gamma^\mu u)$	$\mathbf{C}$
2dbuu	$\frac{4G_F}{\bar{e}}(\bar{d}P_P\gamma_{\mu}T^Ab)(\bar{u}\gamma^{\mu}T^Au)$	$^{\mathrm{C}}$
3dbuu	$\frac{4G_F}{\sqrt{2}}(\bar{d}P_R\gamma_{\mu\nu\rho}b)(\bar{u}\gamma^{\mu\nu\rho}u)$ $\frac{4G_F}{\sqrt{2}}(\bar{d}P_R\gamma_{\mu\nu\rho}T^Ab)(\bar{u}\gamma^{\mu\nu\rho}T^Au)$	$^{\mathrm{C}}$
4dbuu	$\frac{4\tilde{G}_F}{\sqrt{2}}(\bar{d}P_R\gamma_{\mu\nu\rho}T^Ab)(\bar{u}\gamma^{\mu\nu\rho}T^Au)$	$^{\mathrm{C}}$
5dbuu	$\frac{4\tilde{G}_F}{\sqrt{2}}(\bar{d}P_Rb)(\bar{u}u)$	$^{\mathrm{C}}$
6dbuu	$\frac{4G_F}{\sqrt{2}}(\bar{d}P_RT^Ab)(\bar{u}T^Au)$	$\mathbf{C}$
7dbuu	$\frac{4G_F}{\sqrt{2}}(\bar{d}P_R\sigma^{\mu\nu}b)(\bar{u}\sigma_{\mu\nu}u)$ $\frac{4G_F}{\sqrt{2}}(\bar{d}P_R\sigma^{\mu\nu}T^Ab)(\bar{u}\sigma_{\mu\nu}T^Au)$	$^{\mathrm{C}}$
8dbuu	$\frac{4\tilde{G}_F}{\sqrt{2}}(\bar{d}P_R\sigma^{\mu\nu}T^Ab)(\bar{u}\sigma_{\mu\nu}T^Au)$	$^{\mathrm{C}}$

WC name	Operator	Type
9dbuu	$\frac{4G_F}{\sqrt{2}}(\bar{d}P_R\gamma_{\mu\nu\rho\sigma}b)(\bar{u}\gamma^{\mu\nu\rho\sigma}u)$	С
10dbuu	$\frac{4G_F}{\sqrt{2}}(\bar{d}P_R\gamma_{\mu\nu\rho\sigma}T^Ab)(\bar{u}\gamma^{\mu\nu\rho\sigma}T^Au)$	$\mathbf{C}$
1pdbuu	$\frac{4\overset{Q^2}{\sqrt{2}}}{\sqrt{2}}(ar{d}P_L\gamma_\mu b)(ar{u}\gamma^\mu u)$	$\mathbf{C}$
2pdbuu	$\frac{4G_F}{\sqrt{2}}(\bar{d}P_L\gamma_\mu T^A b)(\bar{u}\gamma^\mu T^A u)$	$\mathbf{C}$
3pdbuu	$\frac{4 \check{G}_F}{\sqrt{2}} (\bar{d} P_L \gamma_{\mu\nu\rho} b) (\bar{u} \gamma^{\mu\nu\rho} u)$	$\mathbf{C}$
4pdbuu	$\frac{4G_F^2}{\sqrt{2}}(\bar{d}P_L\gamma_{\mu\nu\rho}T^Ab)(\bar{u}\gamma^{\mu\nu\rho}T^Au)$	$\mathbf{C}$
5pdbuu	$\frac{4\overset{\sim}{G_F}}{\sqrt{2}}(\bar{d}P_Lb)(\bar{u}u)$	$\mathbf{C}$
6pdbuu	$\frac{4\check{G}_F}{\sqrt{2}}(\bar{d}P_LT^Ab)(\bar{u}T^Au)$	$\mathbf{C}$
7pdbuu	$\frac{4\check{G}_F}{\sqrt{2}}(\bar{d}P_L\sigma^{\mu\nu}b)(\bar{u}\sigma_{\mu\nu}u)$	$\mathbf{C}$
8pdbuu	$\frac{4\ddot{G}_F}{\sqrt{2}}(\bar{d}P_L\sigma^{\mu\nu}T^Ab)(\bar{u}\sigma_{\mu\nu}T^Au)$	$\mathbf{C}$
9pdbuu	$\frac{4G_F}{\sqrt{2}}(\bar{d}P_L\gamma_{\mu\nu\rho\sigma}b)(\bar{u}\gamma^{\mu\nu\rho\sigma}u)$	$\mathbf{C}$
10pdbuu	$\frac{\sqrt{2}}{\sqrt{2}}(\bar{d}P_L\gamma_{\mu\nu\rho\sigma}T^Ab)(\bar{u}\gamma^{\mu\nu\rho\sigma}T^Au)$	$\mathbf{C}$
1dbss	$\frac{4G_F}{\sqrt{2}}(\bar{d}P_R\gamma_\mu b)(\bar{s}\gamma^\mu s)$	$\mathbf{C}$
2dbss	$\frac{4\check{G}_F^c}{\sqrt{2}}(\bar{d}P_R\gamma_\mu T^A b)(\bar{s}\gamma^\mu T^A s)$	$\mathbf{C}$
3dbss	$\frac{\sqrt{2}}{\sqrt{2}}(\overline{d}P_R\gamma_{\mu u ho}b)(ar{s}\gamma^{\mu u ho}s)$	$\mathbf{C}$
4dbss	$\frac{4\check{G}_F}{\sqrt{2}}(\bar{d}P_R\gamma_{\mu\nu\rho}T^Ab)(\bar{s}\gamma^{\mu\nu\rho}T^As)$	$\mathbf{C}$
5dbss	$\frac{4\check{G_F}}{\sqrt{2}}(\bar{d}P_Rb)(\bar{s}s)$	$\mathbf{C}$
6dbss	$\frac{4\check{G_F}}{\sqrt{2}}(\bar{d}P_RT^Ab)(\bar{s}T^As)$	$\mathbf{C}$
7dbss	$\frac{4 \check{G_F}}{\sqrt{2}} (\bar{d} P_R \sigma^{\mu  u} b) (\bar{s} \sigma_{\mu  u} s)$	$^{\mathrm{C}}$
8dbss	$\frac{4 \check{G}_F}{\sqrt{2}} (\bar{d} P_R \sigma^{\mu\nu} T^A b) (\bar{s} \sigma_{\mu\nu} T^A s)$	$^{\mathrm{C}}$
9dbss	$\frac{4G_F}{\sqrt{2}}(\bar{d}P_R\gamma_{\mu\nu\rho\sigma}b)(\bar{s}\gamma^{\mu\nu\rho\sigma}s)$	$\mathbf{C}$
10dbss	$\frac{4G_F^2}{\sqrt{2}}(\bar{d}P_R\gamma_{\mu\nu\rho\sigma}T^Ab)(\bar{s}\gamma^{\mu\nu\rho\sigma}T^As)$	$\mathbf{C}$
1pdbss	$\frac{4G_F}{\sqrt{2}}(\bar{d}P_L\gamma_\mu b)(\bar{s}\gamma^\mu s)$	$\mathbf{C}$
2pdbss	$\frac{4G_F}{\sqrt{2}}(\bar{d}P_L\gamma_\mu T^A b)(\bar{s}\gamma^\mu T^A s)$	$\mathbf{C}$
3pdbss	$\frac{4G_F}{\sqrt{2}}(\bar{d}P_L\gamma_{\mu\nu\rho}b)(\bar{s}\gamma^{\mu\nu\rho}s)$	$\mathbf{C}$
4pdbss	$\frac{4\tilde{Q}_F^2}{\sqrt{2}}(\bar{d}P_L\gamma_{\mu\nu\rho}T^Ab)(\bar{s}\gamma^{\mu\nu\rho}T^As)$	$\mathbf{C}$
5pdbss	$rac{4 \overleftarrow{G_F}}{\sqrt{2}} (ar{d} P_L b) (ar{s} s)$	$\mathbf{C}$
6pdbss	$\frac{4\check{G}_F}{\sqrt{2}}(\bar{d}P_LT^Ab)(\bar{s}T^As)$	$\mathbf{C}$
7pdbss	$\frac{4\tilde{G}_{F}}{\bar{c}}(\bar{d}P_{I}\sigma^{\mu\nu}b)(\bar{s}\sigma_{ms})$	$\mathbf{C}$
8pdbss	V 2	$\mathbf{C}$
9pdbss	$\frac{4\overset{Y_{G_F}}{G_F}}{\sqrt{2}}(\bar{d}P_L\gamma_{\mu\nu\rho\sigma}b)(\bar{s}\gamma^{\mu\nu\rho\sigma}s)$	$\mathbf{C}$
10pdbss	$\frac{4\overset{Q^{\prime}}{Q_{F}}}{\sqrt{2}}(\bar{d}P_{L}\gamma_{\mu\nu\rho\sigma}T^{A}b)(\bar{s}\gamma^{\mu\nu\rho\sigma}T^{A}s)$	$\mathbf{C}$
1dbcc	$\frac{4 \overset{\sim}{G_F}}{\sqrt{2}} (\bar{d} P_R \gamma_\mu b) (\bar{c} \gamma^\mu c)$	$\mathbf{C}$
2dbcc	$\frac{4\ddot{G}_F^2}{\sqrt{2}}(\bar{d}P_R\gamma_\mu T^A b)(\bar{c}\gamma^\mu T^A c)$	$\mathbf{C}$
3dbcc	$\frac{4 \overset{\sim}{G_F}}{\sqrt{2}} (\bar{d} P_R \gamma_{\mu  u  ho} b) (\bar{c} \gamma^{\mu  u  ho} c)$	$\mathbf{C}$
4dbcc	$ \frac{4G_F}{\sqrt{2}}(\bar{d}P_L\sigma^{\mu\nu}T^Ab)(\bar{s}\sigma_{\mu\nu}T^As) \\ \frac{4G_F}{\sqrt{2}}(\bar{d}P_L\gamma_{\mu\nu\rho\sigma}b)(\bar{s}\gamma^{\mu\nu\rho\sigma}s) \\ \frac{4G_F}{\sqrt{2}}(\bar{d}P_L\gamma_{\mu\nu\rho\sigma}T^Ab)(\bar{s}\gamma^{\mu\nu\rho\sigma}T^As) \\ \frac{4G_F}{\sqrt{2}}(\bar{d}P_R\gamma_{\mu}b)(\bar{c}\gamma^{\mu}c) \\ \frac{4G_F}{\sqrt{2}}(\bar{d}P_R\gamma_{\mu}T^Ab)(\bar{c}\gamma^{\mu}T^Ac) \\ \frac{4G_F}{\sqrt{2}}(\bar{d}P_R\gamma_{\mu\nu\rho}b)(\bar{c}\gamma^{\mu\nu\rho}c) \\ \frac{4G_F}{\sqrt{2}}(\bar{d}P_R\gamma_{\mu\nu\rho}T^Ab)(\bar{c}\gamma^{\mu\nu\rho}T^Ac) \\ \frac{4G_F}{\sqrt{2}}(\bar{d}P_R\gamma_{\mu\nu\rho}T^Ab)(\bar{c}\gamma^{\mu\nu\rho}T^Ac) \\ \frac{4G_F}{\sqrt{2}}(\bar{d}P_Rb)(\bar{c}c) $	$\mathbf{C}$
5dbcc	$\frac{\sqrt{2}}{\sqrt{2}}(\bar{d}P_Rb)(\bar{c}c)$	$^{\mathrm{C}}$

$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	WC name	Operator	Type
7dbec $\frac{4G_F}{\sqrt{2}}(\bar{d}P_R \sigma^{\mu\nu}b)(\bar{c}\sigma_{\mu\nu}c) \qquad C$ 8dbec $\frac{4G_F}{\sqrt{2}}(\bar{d}P_R \sigma^{\mu\nu}T^A b)(\bar{c}\sigma_{\mu\nu}T^A c) \qquad C$ 9dbec $\frac{4G_F}{\sqrt{2}}(\bar{d}P_R \sigma^{\mu\nu}T^A b)(\bar{c}\sigma_{\mu\nu}T^A c) \qquad C$ 10dbec $\frac{4G_F}{\sqrt{2}}(\bar{d}P_R \gamma_{\mu\nu\rho\sigma}b)(\bar{c}\gamma^{\mu\nu\rho\sigma}c) \qquad C$ 1pdbec $\frac{4G_F}{\sqrt{2}}(\bar{d}P_R \gamma_{\mu\nu\rho\sigma}T^A b)(\bar{c}\gamma^{\mu\nu\rho\sigma}T^A c) \qquad C$ 2pdbec $\frac{4G_F}{\sqrt{2}}(\bar{d}P_L \gamma_{\mu}b)(\bar{c}\gamma^{\mu}c) \qquad C$ 2pdbec $\frac{4G_F}{\sqrt{2}}(\bar{d}P_L \gamma_{\mu\nu}b)(\bar{c}\gamma^{\mu\nu\rho}c) \qquad C$ 2pdbec $\frac{4G_F}{\sqrt{2}}(\bar{d}P_L \gamma_{\mu\nu\rho}b)(\bar{c}\gamma^{\mu\nu\rho}c) \qquad C$ 3pdbec $\frac{4G_F}{\sqrt{2}}(\bar{d}P_L \gamma_{\mu\nu\rho}b)(\bar{c}\gamma^{\mu\nu\rho}c) \qquad C$ 2pdbec $\frac{4G_F}{\sqrt{2}}(\bar{d}P_L \gamma_{\mu\nu\rho}b)(\bar{c}\gamma^{\mu\nu\rho}c) \qquad C$ 3pdbec $\frac{4G_F}{\sqrt{2}}(\bar{d}P_L \gamma_{\mu\nu\rho}D^A b)(\bar{c}\gamma^{\mu\nu\rho}T^A c) \qquad C$ 5pdbec $\frac{4G_F}{\sqrt{2}}(\bar{d}P_L \gamma_{\mu\nu\rho}D^A b)(\bar{c}\gamma^{\mu\nu\rho}T^A c) \qquad C$ 6pdbec $\frac{4G_F}{\sqrt{2}}(\bar{d}P_L \gamma_{\mu\nu\rho}b)(\bar{c}\gamma^{\mu\nu\rho}C) \qquad C$ 7pdbec $\frac{4G_F}{\sqrt{2}}(\bar{d}P_L \gamma_{\mu\nu\rho\sigma}b)(\bar{c}\gamma_{\mu\nu}C) \qquad C$ 8pdbec $\frac{4G_F}{\sqrt{2}}(\bar{d}P_L \gamma_{\mu\nu\rho\rho}b)(\bar{c}\gamma^{\mu\nu\rho}C) \qquad C$ 9pdbec $\frac{4G_F}{\sqrt{2}}(\bar{d}P_L \gamma_{\mu\nu\rho\rho}b)(\bar{c}\gamma^{\mu\nu\rho}C) \qquad C$ 1dbbb $\frac{4G_F}{\sqrt{2}}(\bar{d}P_L \gamma_{\mu\nu\rho\rho}b)(\bar{b}\gamma^{\mu\nu\rho}b) \qquad C$ 2dbbb $\frac{4G_F}{\sqrt{2}}(\bar{d}P_R \gamma_{\mu\nu\rho}b)(\bar{b}\gamma^{\mu\nu\rho}b) \qquad C$ 3dbbb $\frac{4G_F}{\sqrt{2}}(\bar{d}P_R \gamma_{\mu\nu\rho}b)(\bar{b}\gamma^{\mu\nu\rho}b) \qquad C$ 3dbbb $\frac{4G_F}{\sqrt{2}}(\bar{d}P_R \gamma_{\mu\nu\rho}b)(\bar{b}\gamma^{\mu\nu\rho}b) \qquad C$ 3pdbbb $\frac{4G_F}{\sqrt{2}}(\bar{d}P_L \gamma_{\mu\nu\rho}b)(\bar{b}\gamma^{\mu\nu\rho}b) \qquad C$ 5pdbbb $\frac{4G_F}{\sqrt{2}}(\bar{d}P_L \gamma_{\mu\nu\rho}b)(\bar{b}\gamma^{\mu\nu\rho}b) \qquad C$ 6 2pdbbb $\frac{4G_F}{\sqrt{2}}(\bar{d}P_L \gamma_{\mu\nu\rho}b)(\bar{b}\gamma^{\mu\nu\rho}b) \qquad C$ 7pdbbb $\frac{4G_F}{\sqrt{2}}(\bar{d}P_L \gamma_{\mu\nu\rho}b)(\bar{b}\gamma^{\mu\nu\rho}b) \qquad C$ 6 2pdbbb $\frac{4G_F}{\sqrt{2}}(\bar{d}P_L \gamma_{\mu\nu\rho}b)(\bar{b}\gamma^{\mu\nu\rho}b) \qquad C$ 7pdbbb $\frac{4G_F}{\sqrt{2}}(\bar{d}P_L \gamma_{\mu\nu\rho}b)(\bar{b}\gamma^{\mu\nu\rho}b) \qquad C$ 6 2pdbbb $\frac{4G_F}{\sqrt{2}}(\bar{d}P_L \gamma_{\mu\nu\rho}b)(\bar{b}\gamma^{\mu\nu\rho}b) \qquad C$ 7pdbbb $\frac{4G_F}{\sqrt{2}}(\bar{d}P_L \gamma_{\mu\nu\rho}b)(\bar{b}\gamma^{\mu\nu\rho}b) \qquad C$ 6 2pdbbb $\frac{4G_F}{\sqrt{2}}(\bar{d}P_L \gamma_{\mu\nu\rho}b)(\bar{b}\gamma^{\mu\nu\rho}b) \qquad C$ 7pdbbb $\frac{4G_F}{\sqrt{2}}(\bar{d}P_L \gamma_{\mu\nu\rho}b)(\bar{b}\gamma^{\mu\nu\rho}b) \qquad C$ 6 2pdbbb $\frac{4G_F}{\sqrt{2}}(\bar{d}P_L \gamma_{\mu\nu\rho}b)(\bar{d}\gamma^{\mu\nu}d) \qquad C$ 7pdbbb $\frac{4G_F}{\sqrt{2}}(\bar{d}P_L \gamma_{\mu\nu\rho}b)(\bar{d}\gamma^{\mu\nu}d) \qquad C$ 8pdbbd $\frac{4G_F}{\sqrt{2}}(\bar{d}P_L \gamma_{\mu\nu\rho}b)(\bar{d}\gamma^{\mu\nu}d) \qquad C$ 8pdbbd $\frac{4G_F}{\sqrt{2}}(\bar{d}P_L \gamma_{\mu\nu\rho}b)(\bar{d}\gamma^{\mu\nu}d) \qquad C$ 8pdb	6dbcc	$\frac{4G_F}{\sqrt{2}}(\bar{d}P_RT^Ab)(\bar{c}T^Ac)$	C
8dbcc $\frac{4G_F}{\sqrt{2}}(dP_R\sigma^{\mu\nu}T^Ab)(\bar{c}\sigma_{\mu\nu}T^Ac) \qquad \qquad$	7dbcc	$\frac{4G_F}{\sqrt{2}}(\bar{d}P_R\sigma^{\mu\nu}b)(\bar{c}\sigma_{\mu\nu}c)$	$^{\mathrm{C}}$
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	8dbcc	$\frac{4\ddot{G}_F}{\sqrt{2}}(\bar{d}P_R\sigma^{\mu\nu}T^Ab)(\bar{c}\sigma_{\mu\nu}T^Ac)$	$^{\mathrm{C}}$
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	9dbcc	$\frac{4\check{G_F}}{\sqrt{2}}(\bar{d}P_R\gamma_{\mu\nu\rho\sigma}b)(\bar{c}\gamma^{\mu\nu\rho\sigma}c)$	$\mathbf{C}$
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	10dbcc	$\frac{4G_F}{\sqrt{2}}(\bar{d}P_R\gamma_{\mu\nu\rho\sigma}T^Ab)(\bar{c}\gamma^{\mu\nu\rho\sigma}T^Ac)$	$\mathbf{C}$
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	1pdbcc	$\frac{4\ddot{G_F}}{\sqrt{2}}(\bar{d}P_L\gamma_\mu b)(\bar{c}\gamma^\mu c)$	$\mathbf{C}$
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	2pdbcc	$\frac{4G_F}{\sqrt{a}}(dP_L\gamma_\mu T^A b)(\bar{c}\gamma^\mu T^A c)$	$\mathbf{C}$
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	3pdbcc	$\frac{4\check{G}_F}{\sqrt{2}}(\bar{d}P_L\gamma_{\mu\nu\rho}b)(\bar{c}\gamma^{\mu\nu\rho}c)$	$\mathbf{C}$
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	4pdbcc	$\frac{4\check{G}_F}{\sqrt{2}}(\bar{d}P_L\gamma_{\mu\nu\rho}T^Ab)(\bar{c}\gamma^{\mu\nu\rho}T^Ac)$	$\mathbf{C}$
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	5pdbcc	$\frac{4G_F}{\sqrt{2}}(dP_Lb)(\bar{c}c)$	$\mathbf{C}$
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	6pdbcc	$\frac{4G_F}{\sqrt{2}}(\bar{d}P_LT^Ab)(\bar{c}T^Ac)$	$\mathbf{C}$
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	7pdbcc	$\frac{4G_F}{\sqrt{2}}(dP_L\sigma^{\mu\nu}b)(\bar{c}\sigma_{\mu\nu}c)$	$\mathbf{C}$
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	8pdbcc	$\frac{4\check{G}_F}{\sqrt{2}}(\bar{d}P_L\sigma^{\mu\nu}T^Ab)(\bar{c}\sigma_{\mu\nu}T^Ac)$	$\mathbf{C}$
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	9pdbcc	$\frac{4G_F}{\sqrt{2}}(\bar{d}P_L\gamma_{\mu\nu\rho\sigma}b)(\bar{c}\gamma^{\mu\nu\rho\sigma}c)$	$\mathbf{C}$
3dbbb $\frac{4\overline{G_F}}{\sqrt{2}}(\bar{d}P_R\gamma_{\mu\nu\rho}b)(\bar{b}\gamma^{\mu\nu\rho}b) \qquad \qquad$	10pdbcc	$\frac{4G_F}{\sqrt{2}}(dP_L\gamma_{\mu\nu\rho\sigma}T^Ab)(\bar{c}\gamma^{\mu\nu\rho\sigma}T^Ac)$	$\mathbf{C}$
5dbbb $\frac{4G_F}{\sqrt{2}}(\bar{d}P_Rb)(\bar{b}b) \qquad \qquad C$ 7dbbb $\frac{4G_F}{\sqrt{2}}(\bar{d}P_R\sigma^{\mu\nu}b)(\bar{b}\sigma_{\mu\nu}b) \qquad \qquad C$ 9dbbb $\frac{4G_F}{\sqrt{2}}(\bar{d}P_R\gamma_{\mu\nu\rho\sigma}b)(\bar{b}\gamma^{\mu\nu\rho\sigma}b) \qquad \qquad C$ 1pdbbb $\frac{4G_F}{\sqrt{2}}(\bar{d}P_L\gamma_{\mu}b)(\bar{b}\gamma^{\mu}b) \qquad \qquad C$ 3pdbbb $\frac{4G_F}{\sqrt{2}}(\bar{d}P_L\gamma_{\mu\nu\rho}b)(\bar{b}\gamma^{\mu\nu\rho}b) \qquad \qquad C$ 5pdbbb $\frac{4G_F}{\sqrt{2}}(\bar{d}P_L\phi_{\mu\nu\rho}b)(\bar{b}\phi) \qquad \qquad C$ 7pdbbb $\frac{4G_F}{\sqrt{2}}(\bar{d}P_L\phi_{\mu\nu\rho}b)(\bar{b}\sigma_{\mu\nu}b) \qquad \qquad C$ 9pdbbb $\frac{4G_F}{\sqrt{2}}(\bar{d}P_L\gamma_{\mu\nu\rho\sigma}b)(\bar{b}\gamma^{\mu\nu\rho\sigma}b) \qquad \qquad C$ 1dbdd $\frac{4G_F}{\sqrt{2}}(\bar{d}P_L\phi_{\mu\nu\rho\sigma}b)(\bar{d}\gamma^{\mu}d) \qquad \qquad C$ 1pdbdd $\frac{4G_F}{\sqrt{2}}(\bar{d}\gamma_{\mu}P_Lb)(\bar{d}\gamma^{\mu}d) \qquad \qquad C$ 3dbdd $\frac{4G_F}{\sqrt{2}}(\bar{d}\gamma_{\mu\nu\rho}P_Lb)(\bar{d}\gamma^{\mu\nu\rho}d) \qquad \qquad C$ 3pdbdd $\frac{4G_F}{\sqrt{2}}(\bar{d}\gamma_{\mu\nu\rho}P_Rb)(\bar{d}\gamma^{\mu\nu\rho}d) \qquad \qquad C$	1dbbb	$\frac{4G_F}{\sqrt{2}}(\bar{d}P_R\gamma_\mu b)(\bar{b}\gamma^\mu b)$	$\mathbf{C}$
5dbbb $\frac{4G_F}{\sqrt{2}}(\bar{d}P_Rb)(\bar{b}b) \qquad \qquad C$ 7dbbb $\frac{4G_F}{\sqrt{2}}(\bar{d}P_R\sigma^{\mu\nu}b)(\bar{b}\sigma_{\mu\nu}b) \qquad \qquad C$ 9dbbb $\frac{4G_F}{\sqrt{2}}(\bar{d}P_R\gamma_{\mu\nu\rho\sigma}b)(\bar{b}\gamma^{\mu\nu\rho\sigma}b) \qquad \qquad C$ 1pdbbb $\frac{4G_F}{\sqrt{2}}(\bar{d}P_L\gamma_{\mu}b)(\bar{b}\gamma^{\mu}b) \qquad \qquad C$ 3pdbbb $\frac{4G_F}{\sqrt{2}}(\bar{d}P_L\gamma_{\mu\nu\rho}b)(\bar{b}\gamma^{\mu\nu\rho}b) \qquad \qquad C$ 5pdbbb $\frac{4G_F}{\sqrt{2}}(\bar{d}P_L\phi_{\mu\nu\rho}b)(\bar{b}\phi) \qquad \qquad C$ 7pdbbb $\frac{4G_F}{\sqrt{2}}(\bar{d}P_L\phi_{\mu\nu\rho}b)(\bar{b}\sigma_{\mu\nu}b) \qquad \qquad C$ 9pdbbb $\frac{4G_F}{\sqrt{2}}(\bar{d}P_L\gamma_{\mu\nu\rho\sigma}b)(\bar{b}\gamma^{\mu\nu\rho\sigma}b) \qquad \qquad C$ 1dbdd $\frac{4G_F}{\sqrt{2}}(\bar{d}P_L\phi_{\mu\nu\rho\sigma}b)(\bar{d}\gamma^{\mu}d) \qquad \qquad C$ 1pdbdd $\frac{4G_F}{\sqrt{2}}(\bar{d}\gamma_{\mu}P_Lb)(\bar{d}\gamma^{\mu}d) \qquad \qquad C$ 3dbdd $\frac{4G_F}{\sqrt{2}}(\bar{d}\gamma_{\mu\nu\rho}P_Lb)(\bar{d}\gamma^{\mu\nu\rho}d) \qquad \qquad C$ 3pdbdd $\frac{4G_F}{\sqrt{2}}(\bar{d}\gamma_{\mu\nu\rho}P_Rb)(\bar{d}\gamma^{\mu\nu\rho}d) \qquad \qquad C$	3dbbb	$\frac{4G_F}{\sqrt{2}}(\bar{d}P_R\gamma_{\mu\nu\rho}b)(\bar{b}\gamma^{\mu\nu\rho}b)$	$\mathbf{C}$
7dbbb $\frac{4G_F}{\sqrt{2}}(dP_R\sigma^{\mu\nu}b)(b\sigma_{\mu\nu}b) \qquad \qquad C$ 9dbbb $\frac{4G_F}{\sqrt{2}}(\bar{d}P_R\gamma_{\mu\nu\rho\sigma}b)(\bar{b}\gamma^{\mu\nu\rho\sigma}b) \qquad \qquad C$ 1pdbbb $\frac{4G_F}{\sqrt{2}}(\bar{d}P_L\gamma_{\mu}b)(\bar{b}\gamma^{\mu}b) \qquad \qquad C$ 3pdbbb $\frac{4G_F}{\sqrt{2}}(\bar{d}P_L\gamma_{\mu\nu\rho}b)(\bar{b}\gamma^{\mu\nu\rho}b) \qquad \qquad C$ 5pdbbb $\frac{4G_F}{\sqrt{2}}(\bar{d}P_Lb)(\bar{b}b) \qquad \qquad C$ 7pdbbb $\frac{4G_F}{\sqrt{2}}(\bar{d}P_L\sigma^{\mu\nu}b)(\bar{b}\sigma_{\mu\nu}b) \qquad \qquad C$ 9pdbbb $\frac{4G_F}{\sqrt{2}}(\bar{d}P_L\gamma_{\mu\nu\rho\sigma}b)(\bar{b}\gamma^{\mu\nu\rho\sigma}b) \qquad \qquad C$ 1dbdd $\frac{4G_F}{\sqrt{2}}(\bar{d}P_L\gamma_{\mu\nu\rho\sigma}b)(\bar{d}\gamma^{\mu}d) \qquad \qquad C$ 1pdbdd $\frac{4G_F}{\sqrt{2}}(\bar{d}\gamma_{\mu}P_Lb)(\bar{d}\gamma^{\mu}d) \qquad \qquad C$ 3dbdd $\frac{4G_F}{\sqrt{2}}(\bar{d}\gamma_{\mu\nu\rho}P_Lb)(\bar{d}\gamma^{\mu\nu\rho}d) \qquad \qquad C$ 3pdbdd $\frac{4G_F}{\sqrt{2}}(\bar{d}\gamma_{\mu\nu\rho}P_Rb)(\bar{d}\gamma^{\mu\nu\rho}d) \qquad \qquad C$ 5pdbdd $\frac{4G_F}{\sqrt{2}}(\bar{d}\gamma_{\mu\nu\rho}P_Rb)(\bar{d}\gamma^{\mu\nu\rho}d) \qquad \qquad C$	5dbbb	$\frac{4G_F}{\sqrt{2}}(\bar{d}P_Rb)(\bar{b}b)$	$\mathbf{C}$
9dbbb $\frac{4G_F}{\sqrt{2}}(dP_R\gamma_{\mu\nu\rho\sigma}b)(b\gamma^{\mu\nu\rho\sigma}b) \qquad \qquad C$ 1pdbbb $\frac{4G_F}{\sqrt{2}}(\bar{d}P_L\gamma_{\mu}b)(\bar{b}\gamma^{\mu}b) \qquad \qquad C$ 3pdbbb $\frac{4G_F}{\sqrt{2}}(\bar{d}P_L\gamma_{\mu\nu\rho}b)(\bar{b}\gamma^{\mu\nu\rho}b) \qquad \qquad C$ 5pdbbb $\frac{4G_F}{\sqrt{2}}(\bar{d}P_Lb)(\bar{b}b) \qquad \qquad C$ 7pdbbb $\frac{4G_F}{\sqrt{2}}(\bar{d}P_L\sigma^{\mu\nu}b)(\bar{b}\sigma_{\mu\nu}b) \qquad \qquad C$ 9pdbbb $\frac{4G_F}{\sqrt{2}}(\bar{d}P_L\gamma_{\mu\nu\rho\sigma}b)(\bar{b}\gamma^{\mu\nu\rho\sigma}b) \qquad \qquad C$ 1dbdd $\frac{4G_F}{\sqrt{2}}(\bar{d}P_L\gamma_{\mu\nu\rho\sigma}b)(\bar{d}\gamma^{\mu}d) \qquad \qquad C$ 1pdbdd $\frac{4G_F}{\sqrt{2}}(\bar{d}\gamma_{\mu}P_Lb)(\bar{d}\gamma^{\mu}d) \qquad \qquad C$ 3dbdd $\frac{4G_F}{\sqrt{2}}(\bar{d}\gamma_{\mu\nu\rho}P_Lb)(\bar{d}\gamma^{\mu\nu\rho}d) \qquad \qquad C$ 3pdbdd $\frac{4G_F}{\sqrt{2}}(\bar{d}\gamma_{\mu\nu\rho}P_Rb)(\bar{d}\gamma^{\mu\nu\rho}d) \qquad \qquad C$ 5dbdd $\frac{4G_F}{\sqrt{2}}(\bar{d}\gamma_{\mu\nu\rho}P_Rb)(\bar{d}\gamma^{\mu\nu\rho}d) \qquad \qquad C$ 6	7dbbb	$\frac{4G_F}{\sqrt{2}}(dP_R\sigma^{\mu\nu}b)(b\sigma_{\mu\nu}b)$	$\mathbf{C}$
3pdbbb $\frac{4\overline{G_F}}{\sqrt{2}}(\bar{d}P_L\gamma_{\mu\nu\rho}b)(\bar{b}\gamma^{\mu\nu\rho}b) \qquad \qquad C$ 5pdbbb $\frac{4G_F}{\sqrt{2}}(\bar{d}P_Lb)(\bar{b}b) \qquad \qquad C$ 7pdbbb $\frac{4G_F}{\sqrt{2}}(\bar{d}P_L\sigma^{\mu\nu}b)(\bar{b}\sigma_{\mu\nu}b) \qquad \qquad C$ 9pdbbb $\frac{4G_F}{\sqrt{2}}(\bar{d}P_L\gamma_{\mu\nu\rho\sigma}b)(\bar{b}\gamma^{\mu\nu\rho\sigma}b) \qquad \qquad C$ 1dbdd $\frac{4G_F}{\sqrt{2}}(\bar{d}\gamma_{\mu}P_Lb)(\bar{d}\gamma^{\mu}d) \qquad \qquad C$ 1pdbdd $\frac{4G_F}{\sqrt{2}}(\bar{d}\gamma_{\mu}P_Rb)(\bar{d}\gamma^{\mu}d) \qquad \qquad C$ 3dbdd $\frac{4G_F}{\sqrt{2}}(\bar{d}\gamma_{\mu\nu\rho}P_Lb)(\bar{d}\gamma^{\mu\nu\rho}d) \qquad \qquad C$ 3pdbdd $\frac{4G_F}{\sqrt{2}}(\bar{d}\gamma_{\mu\nu\rho}P_Rb)(\bar{d}\gamma^{\mu\nu\rho}d) \qquad \qquad C$ 5dbdd $\frac{4G_F}{\sqrt{2}}(\bar{d}\gamma_{\mu\nu\rho}P_Rb)(\bar{d}\gamma^{\mu\nu\rho}d) \qquad \qquad C$	9dbbb	$\frac{4G_F}{\sqrt{2}}(dP_R\gamma_{\mu\nu\rho\sigma}b)(b\gamma^{\mu\nu\rho\sigma}b)$	$\mathbf{C}$
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	1pdbbb	$\frac{4G_F}{\sqrt{2}}(\bar{d}P_L\gamma_\mu b)(\bar{b}\gamma^\mu b)$	$\mathbf{C}$
9pdbbb $\frac{\frac{4G_F}{\sqrt{2}}(dP_L\gamma_{\mu\nu\rho\sigma}b)(b\gamma^{\mu\nu\rho\sigma}b)}{\sqrt{2}(\bar{d}\gamma_{\mu}P_Lb)(\bar{d}\gamma^{\mu}d)} \qquad \qquad C$ 1dbdd $\frac{\frac{4G_F}{\sqrt{2}}(\bar{d}\gamma_{\mu}P_Lb)(\bar{d}\gamma^{\mu}d)}{\sqrt{2}(\bar{d}\gamma_{\mu}P_Rb)(\bar{d}\gamma^{\mu}d)} \qquad \qquad C$ 3dbdd $\frac{\frac{4G_F}{\sqrt{2}}(\bar{d}\gamma_{\mu\nu\rho}P_Lb)(\bar{d}\gamma^{\mu\nu\rho}d)}{\sqrt{2}(\bar{d}\gamma_{\mu\nu\rho}P_Rb)(\bar{d}\gamma^{\mu\nu\rho}d)} \qquad \qquad C$ 3pdbdd $\frac{\frac{4G_F}{\sqrt{2}}(\bar{d}\gamma_{\mu\nu\rho}P_Rb)(\bar{d}\gamma^{\mu\nu\rho}d)}{\sqrt{2}(\bar{d}\gamma_{\mu\nu\rho}P_Rb)(\bar{d}d)} \qquad \qquad C$ 5dbdd $\frac{4G_F}{\sqrt{2}}(\bar{d}P_Lb)(\bar{d}d) \qquad \qquad C$	3pdbbb	$\frac{4G_F}{\sqrt{2}}(\bar{d}P_L\gamma_{\mu\nu\rho}b)(\bar{b}\gamma^{\mu\nu\rho}b)$	$\mathbf{C}$
9pdbbb $\frac{\frac{4G_F}{\sqrt{2}}(dP_L\gamma_{\mu\nu\rho\sigma}b)(b\gamma^{\mu\nu\rho\sigma}b)}{\sqrt{2}(\bar{d}\gamma_{\mu}P_Lb)(\bar{d}\gamma^{\mu}d)} \qquad \qquad C$ 1dbdd $\frac{\frac{4G_F}{\sqrt{2}}(\bar{d}\gamma_{\mu}P_Lb)(\bar{d}\gamma^{\mu}d)}{\sqrt{2}(\bar{d}\gamma_{\mu}P_Rb)(\bar{d}\gamma^{\mu}d)} \qquad \qquad C$ 3dbdd $\frac{\frac{4G_F}{\sqrt{2}}(\bar{d}\gamma_{\mu\nu\rho}P_Lb)(\bar{d}\gamma^{\mu\nu\rho}d)}{\sqrt{2}(\bar{d}\gamma_{\mu\nu\rho}P_Rb)(\bar{d}\gamma^{\mu\nu\rho}d)} \qquad \qquad C$ 3pdbdd $\frac{\frac{4G_F}{\sqrt{2}}(\bar{d}\gamma_{\mu\nu\rho}P_Rb)(\bar{d}\gamma^{\mu\nu\rho}d)}{\sqrt{2}(\bar{d}\gamma_{\mu\nu\rho}P_Rb)(\bar{d}d)} \qquad \qquad C$ 5dbdd $\frac{4G_F}{\sqrt{2}}(\bar{d}P_Lb)(\bar{d}d) \qquad \qquad C$	5pdbbb	$rac{4 ar{G_F}}{\sqrt{2}} (ar{d} P_L b) (ar{b} b)$	$\mathbf{C}$
9pdbbb $\frac{\frac{4G_F}{\sqrt{2}}(dP_L\gamma_{\mu\nu\rho\sigma}b)(b\gamma^{\mu\nu\rho\sigma}b)}{\sqrt{2}(\bar{d}\gamma_{\mu}P_Lb)(\bar{d}\gamma^{\mu}d)} \qquad \qquad C$ 1dbdd $\frac{\frac{4G_F}{\sqrt{2}}(\bar{d}\gamma_{\mu}P_Lb)(\bar{d}\gamma^{\mu}d)}{\sqrt{2}(\bar{d}\gamma_{\mu}P_Rb)(\bar{d}\gamma^{\mu}d)} \qquad \qquad C$ 3dbdd $\frac{\frac{4G_F}{\sqrt{2}}(\bar{d}\gamma_{\mu\nu\rho}P_Lb)(\bar{d}\gamma^{\mu\nu\rho}d)}{\sqrt{2}(\bar{d}\gamma_{\mu\nu\rho}P_Rb)(\bar{d}\gamma^{\mu\nu\rho}d)} \qquad \qquad C$ 3pdbdd $\frac{\frac{4G_F}{\sqrt{2}}(\bar{d}\gamma_{\mu\nu\rho}P_Rb)(\bar{d}\gamma^{\mu\nu\rho}d)}{\sqrt{2}(\bar{d}\gamma_{\mu\nu\rho}P_Rb)(\bar{d}d)} \qquad \qquad C$ 5dbdd $\frac{4G_F}{\sqrt{2}}(\bar{d}P_Lb)(\bar{d}d) \qquad \qquad C$	7pdbbb	$rac{4 ar{G_F}}{\sqrt{2}} (ar{d} P_L \sigma^{\mu  u} b) (ar{b} \sigma_{\mu  u} b)$	$\mathbf{C}$
1pdbdd $\frac{4\overline{G_F}}{\sqrt{2}}(\bar{d}\gamma_{\mu}P_Rb)(\bar{d}\gamma^{\mu}d) \qquad \qquad C$ 3dbdd $\frac{4\overline{G_F}}{\sqrt{2}}(\bar{d}\gamma_{\mu\nu\rho}P_Lb)(\bar{d}\gamma^{\mu\nu\rho}d) \qquad \qquad C$ 3pdbdd $\frac{4\overline{G_F}}{\sqrt{2}}(\bar{d}\gamma_{\mu\nu\rho}P_Rb)(\bar{d}\gamma^{\mu\nu\rho}d) \qquad \qquad C$ 5dbdd $4\overline{G_F}(\bar{d}P_Lb)(\bar{d}d) \qquad \qquad C$	9pdbbb	$\frac{4G_F}{\sqrt{2}}(\bar{d}P_L\gamma_{\mu\nu\rho\sigma}b)(\bar{b}\gamma^{\mu\nu\rho\sigma}b)$	$\mathbf{C}$
3dbdd $\frac{4G_F}{\sqrt{2}}(\bar{d}\gamma_{\mu\nu\rho}P_Lb)(\bar{d}\gamma^{\mu\nu\rho}d) \qquad \qquad C$ 3pdbdd $\frac{4G_F}{\sqrt{2}}(\bar{d}\gamma_{\mu\nu\rho}P_Rb)(\bar{d}\gamma^{\mu\nu\rho}d) \qquad \qquad C$	1dbdd		$\mathbf{C}$
3dbdd $\frac{4G_F}{\sqrt{2}}(\bar{d}\gamma_{\mu\nu\rho}P_Lb)(\bar{d}\gamma^{\mu\nu\rho}d) \qquad \qquad C$ 3pdbdd $\frac{4G_F}{\sqrt{2}}(\bar{d}\gamma_{\mu\nu\rho}P_Rb)(\bar{d}\gamma^{\mu\nu\rho}d) \qquad \qquad C$	1pdbdd	$\frac{4 \bar{G_F}}{\sqrt{2}} (\bar{d}\gamma_\mu P_R b) (\bar{d}\gamma^\mu d)$	$\mathbf{C}$
$4G_F(JD, h)(JJ)$	3dbdd	$\frac{4\ddot{G_F}}{\sqrt{2}}(\bar{d}\gamma_{\mu\nu\rho}P_Lb)(\bar{d}\gamma^{\mu\nu\rho}d)$	$\mathbf{C}$
$4G_F(JD, h)(JJ)$	3pdbdd	$\frac{4G_F}{\sqrt{2}}(\bar{d}\gamma_{\mu\nu\rho}P_Rb)(\bar{d}\gamma^{\mu\nu\rho}d)$	$\mathbf{C}$
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	5dbdd	$4G_F(JD, h)(JJ)$	$\mathbf{C}$
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	5pdbdd	$\frac{4G_F}{\sqrt{2}}(\bar{d}P_Rb)(\bar{d}d)$	$\mathbf{C}$
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	7dbdd	$rac{4ar{G_F}}{\sqrt{2}}(ar{d}\sigma^{\mu u}P_Lb)(ar{d}\sigma_{\mu u}d)$	$\mathbf{C}$
9dbdd $\frac{4 \overline{G_F}}{\sqrt{2}} (\bar{d} \gamma_{\mu\nu\rho\sigma} P_L b) (\bar{d} \gamma^{\mu\nu\rho\sigma} d) \qquad \qquad C$ 9pdbdd $\frac{4 \overline{G_F}}{\sqrt{2}} (\bar{d} \gamma_{\mu\nu\rho\sigma} P_R b) (\bar{d} \gamma^{\mu\nu\rho\sigma} d) \qquad \qquad C$ 1dbee $\frac{4 \overline{G_F}}{\sqrt{2}} (\bar{d} P_R \gamma_\mu b) (\bar{e} \gamma^\mu e) \qquad \qquad C$ 1pdbee $\frac{4 \overline{G_F}}{\sqrt{2}} (\bar{d} P_L \gamma_\mu b) (\bar{e} \gamma^\mu e) \qquad \qquad C$	7pdbdd	$rac{4 G_F}{\sqrt{2}} (ar{d} \sigma^{\mu  u} P_R b) (ar{d} \sigma_{\mu  u} d)$	$\mathbf{C}$
9pdbdd $\frac{4\overline{G_F}}{\sqrt{2}}(\bar{d}\gamma_{\mu\nu\rho\sigma}P_Rb)(\bar{d}\gamma^{\mu\nu\rho\sigma}d) \qquad \qquad$	9dbdd	$\frac{4G_F}{\sqrt{2}}(\bar{d}\gamma_{\mu\nu\rho\sigma}P_Lb)(\bar{d}\gamma^{\mu\nu\rho\sigma}d)$	$\mathbf{C}$
1dbee $\frac{4\overline{G_F}}{\sqrt{2}}(\bar{d}P_R\gamma_\mu b)(\bar{e}\gamma^\mu e) \qquad \qquad C$ 1pdbee $\frac{4G_F}{\sqrt{2}}(\bar{d}P_L\gamma_\mu b)(\bar{e}\gamma^\mu e) \qquad \qquad C$	9pdbdd	$\frac{4G_F}{\sqrt{2}}(\bar{d}\gamma_{\mu\nu\rho\sigma}P_Rb)(\bar{d}\gamma^{\mu\nu\rho\sigma}d)$	$\mathbf{C}$
1pdbee $\frac{4G_F}{\sqrt{2}}(\bar{d}P_L\gamma_\mu b)(\bar{e}\gamma^\mu e)$ C	1dbee	$rac{4G_F}{\sqrt{2}}(ar{d}P_R\gamma_\mu b)(ar{e}\gamma^\mu e)$	$\mathbf{C}$
	1pdbee	$rac{4G_F}{\sqrt{2}}(ar{d}P_L\gamma_\mu b)(ar{e}\gamma^\mu e)$	$^{\mathrm{C}}$

WC name	Operator	Type
3dbee	$\frac{4G_F}{\sqrt{2}}(\bar{d}P_R\gamma_{\mu\nu\rho}b)(\bar{e}\gamma^{\mu\nu\rho}e)$	C
3pdbee	$\frac{4\tilde{G}_F^c}{\sqrt{2}}(\bar{d}P_L\gamma_{\mu\nu\rho}b)(\bar{e}\gamma^{\mu\nu\rho}e)$	$\mathbf{C}$
5dbee	$\frac{4\tilde{G}_F}{\sqrt{2}}(\bar{d}P_Rb)(\bar{e}e)$	$\mathbf{C}$
5pdbee	$\frac{4\check{G}_F}{\sqrt{2}}(\bar{d}P_Lb)(\bar{e}e)$	$^{\mathrm{C}}$
7dbee	$\frac{4\widetilde{G}_{F}}{\sqrt{2}}(\bar{d}P_{R}\sigma^{\mu\nu}b)(\bar{e}\sigma_{\mu\nu}e)$	$^{\mathrm{C}}$
7pdbee	$\frac{4\check{G}_F}{\sqrt{2}}(\bar{d}P_L\sigma^{\mu\nu}b)(\bar{e}\sigma_{\mu\nu}e)$	$^{\mathrm{C}}$
9dbee	$\frac{4\check{G}_{F}}{\sqrt{2}}(\bar{d}P_{R}\gamma_{\mu\nu\rho\sigma}b)(\bar{e}\gamma^{\mu\nu\rho\sigma}e)$	$^{\mathrm{C}}$
9pdbee	$\frac{\frac{4G_F}{\sqrt{2}}(\bar{d}P_L\sigma^{\mu\nu}b)(\bar{e}\sigma_{\mu\nu}e)}{\frac{4G_F}{\sqrt{2}}(\bar{d}P_R\gamma_{\mu\nu\rho\sigma}b)(\bar{e}\gamma^{\mu\nu\rho\sigma}e)}$ $\frac{\frac{4G_F}{\sqrt{2}}(\bar{d}P_L\gamma_{\mu\nu\rho\sigma}b)(\bar{e}\gamma^{\mu\nu\rho\sigma}e)$	$^{\mathrm{C}}$
1dbmumu	$\frac{4G_F}{\sqrt{2}}(\bar{d}P_R\gamma_\mu b)(\bar{\mu}\gamma^\mu\mu)$	$^{\mathrm{C}}$
1pdbmumu	$\frac{\frac{4G_F^2}{\sqrt{2}}(\bar{d}P_L\gamma_\mu b)(\bar{\mu}\gamma^\mu\mu)}{\frac{4G_F}{\sqrt{2}}(\bar{d}P_R\gamma_{\mu\nu\rho}b)(\bar{\mu}\gamma^{\mu\nu\rho}\mu)}$	$^{\mathrm{C}}$
3dbmumu	$\frac{4\check{G}_F}{\sqrt{2}}(\bar{d}P_R\gamma_{\mu\nu\rho}b)(\bar{\mu}\gamma^{\mu\nu\rho}\mu)$	$^{\mathrm{C}}$
3pdbmumu	$\frac{4\check{G}_{F}}{\sqrt{2}}(\bar{d}P_{L}\gamma_{\mu\nu\rho}b)(\bar{\mu}\gamma^{\mu\nu\rho}\mu)$	$^{\mathrm{C}}$
5dbmumu	$\frac{4\tilde{G}_F}{\sqrt{2}}(\bar{d}P_Rb)(\bar{\mu}\mu)$	$^{\mathrm{C}}$
5pdbmumu	$\frac{4\tilde{G}_F}{\sqrt{2}}(ar{d}P_Lb)(ar{\mu}\mu)$	$^{\mathrm{C}}$
7dbmumu	$\frac{4\check{G}_F}{\sqrt{2}}(\bar{d}P_R\sigma^{\mu\nu}b)(\bar{\mu}\sigma_{\mu\nu}\mu)$	$^{\mathrm{C}}$
7pdbmumu	$\frac{4\check{G}_F}{\sqrt{2}}(\bar{d}P_L\sigma^{\mu\nu}b)(\bar{\mu}\sigma_{\mu\nu}\mu)$	$^{\mathrm{C}}$
9dbmumu	$\frac{4\tilde{G}_F}{\sqrt{2}}(\bar{d}P_R\gamma_{\mu\nu\rho\sigma}b)(\bar{\mu}\gamma^{\mu\nu\rho\sigma}\mu)$	$^{\mathrm{C}}$
9pdbmumu	$\frac{4G_F}{\sqrt{2}}(\bar{d}P_L\gamma_{\mu\nu\rho\sigma}b)(\bar{\mu}\gamma^{\mu\nu\rho\sigma}\mu)$	$\mathbf{C}$
1dbtautau	$\frac{4\tilde{G}_F}{\sqrt{2}}(\bar{d}P_R\gamma_\mu b)(\bar{\tau}\gamma^\mu  au)$	$^{\mathrm{C}}$
1pdbtautau	$\frac{4\ddot{G_F}}{\bar{c}}(\bar{d}P_T\gamma_{\nu}b)(\bar{\tau}\gamma^{\mu}\tau)$	$^{\mathrm{C}}$
3dbtautau	$\frac{\sqrt{2}}{\sqrt{2}}(\bar{d}P_R\gamma_{\mu\nu\rho}b)(\bar{\tau}\gamma^{\mu\nu\rho}\tau)$	$^{\mathrm{C}}$
3pdbtautau	$\frac{4\check{G}_F}{\sqrt{2}}(\bar{d}P_L\gamma_{\mu u ho}b)(\bar{ au}\gamma^{\mu u ho} au)$	$^{\mathrm{C}}$
5dbtautau	$\frac{4\check{G}_F}{\sqrt{2}}(\bar{d}P_Rb)(\bar{ au} au)$	$^{\mathrm{C}}$
5pdbtautau	$\frac{4\tilde{G}_F}{\sqrt{2}}(\bar{d}P_Lb)(\bar{\tau} au)$	$\mathbf{C}$
7dbtautau	$\frac{4G_F}{\sqrt{2}}(\bar{d}P_R\sigma^{\mu\nu}b)(\bar{\tau}\sigma_{\mu\nu}\tau)$	$\mathbf{C}$
7pdbtautau	$\frac{4\check{G}_{F}}{\sqrt{2}}(\bar{d}P_{L}\sigma^{\mu\nu}b)(\bar{\tau}\sigma_{\mu\nu}\tau)$	$\mathbf{C}$
9dbtautau	$ \frac{\frac{4G_F}{\sqrt{2}}(\bar{d}P_L\sigma^{\mu\nu}b)(\bar{\tau}\sigma_{\mu\nu}\tau)}{\frac{4G_F}{\sqrt{2}}(\bar{d}P_R\gamma_{\mu\nu\rho\sigma}b)(\bar{\tau}\gamma^{\mu\nu\rho\sigma}\tau)} \\ \frac{4G_F}{\sqrt{2}}(\bar{d}P_L\gamma_{\mu\nu\rho\sigma}b)(\bar{\tau}\gamma^{\mu\nu\rho\sigma}\tau) $	$\mathbf{C}$
9pdbtautau	$\frac{4\check{G}_{F}^{F}}{\sqrt{2}}(\bar{d}P_{L}\gamma_{\mu\nu\rho\sigma}b)(\bar{\tau}\gamma^{\mu\nu\rho\sigma}\tau)$	$\mathbf{C}$

#### sbemu

WC name	Operator	Type
1sbemu	$\frac{4G_F}{\sqrt{2}}(\bar{s}P_R\gamma_\mu b)(\bar{e}\gamma^\mu\mu)$	C
1psbemu	$\frac{4\tilde{G}_F}{\sqrt{2}}(\bar{s}P_L\gamma_\mu b)(\bar{e}\gamma^\mu\mu)$	$\mathbf{C}$
3sbemu	$\frac{4\tilde{G}_F}{\sqrt{2}}(\bar{s}P_R\gamma_{\mu\nu\rho}b)(\bar{e}\gamma^{\mu\nu\rho}\mu)$	$\mathbf{C}$
3psbemu	$ \frac{\frac{4G_F}{\sqrt{2}}(\bar{s}P_R\gamma_\mu b)(\bar{e}\gamma^\mu\mu)}{\frac{4G_F}{\sqrt{2}}(\bar{s}P_L\gamma_\mu b)(\bar{e}\gamma^\mu\mu)}  \frac{\frac{4G_F}{\sqrt{2}}(\bar{s}P_R\gamma_{\mu\nu\rho}b)(\bar{e}\gamma^{\mu\nu\rho}\mu)}{\frac{4G_F}{\sqrt{2}}(\bar{s}P_L\gamma_{\mu\nu\rho}b)(\bar{e}\gamma^{\mu\nu\rho}\mu)} $	$^{\mathrm{C}}$

WC name	Operator	Type
5sbemu	$\frac{4G_F}{\sqrt{2}}(\bar{s}P_Rb)(\bar{e}\mu)$	C
5psbemu	$\frac{4\tilde{G}_F}{\sqrt{2}}(\bar{s}P_Lb)(\bar{e}\mu)$	$\mathbf{C}$
7sbemu	$\frac{4\check{G}_F}{\sqrt{2}}(\bar{s}P_R\sigma^{\mu\nu}b)(\bar{e}\sigma_{\mu\nu}\mu)$	$\mathbf{C}$
7psbemu	$\frac{4\check{G}_F}{\sqrt{2}}(\bar{s}P_L\sigma^{\mu\nu}b)(\bar{e}\sigma_{\mu\nu}\mu)$	$\mathbf{C}$
9sbemu	$\frac{4\tilde{G}_F}{\sqrt{2}}(\bar{s}P_R\gamma_{\mu\nu\rho\sigma}b)(\bar{e}\gamma^{\mu\nu\rho\sigma}\mu)$	$\mathbf{C}$
9psbemu	$\begin{split} &\frac{4G_F}{\sqrt{2}}(\bar{s}P_Rb)(\bar{e}\mu) \\ &\frac{4G_F}{\sqrt{2}}(\bar{s}P_Lb)(\bar{e}\mu) \\ &\frac{4G_F}{\sqrt{2}}(\bar{s}P_R\sigma^{\mu\nu}b)(\bar{e}\sigma_{\mu\nu}\mu) \\ &\frac{4G_F}{\sqrt{2}}(\bar{s}P_L\sigma^{\mu\nu}b)(\bar{e}\sigma_{\mu\nu}\mu) \\ &\frac{4G_F}{\sqrt{2}}(\bar{s}P_R\gamma_{\mu\nu\rho\sigma}b)(\bar{e}\gamma^{\mu\nu\rho\sigma}\mu) \\ &\frac{4G_F}{\sqrt{2}}(\bar{s}P_L\gamma_{\mu\nu\rho\sigma}b)(\bar{e}\gamma^{\mu\nu\rho\sigma}\mu) \end{split}$	C

## sbetau

WC name	Operator	Type
1sbetau	$\frac{4G_F}{\sqrt{2}}(\bar{s}P_R\gamma_\mu b)(\bar{e}\gamma^\mu\tau)$	C
1psbetau	$\frac{4\tilde{G}_F}{\sqrt{2}}(\bar{s}P_L\gamma_\mu b)(\bar{e}\gamma^\mu \tau)$	$\mathbf{C}$
3sbetau	$\frac{4\bar{G}_F}{\sqrt{2}}(\bar{s}P_R\gamma_{\mu\nu\rho}b)(\bar{e}\gamma^{\mu\nu\rho}\tau)$	$^{\mathrm{C}}$
3psbetau	$\frac{4\bar{G}_F}{\sqrt{2}}(\bar{s}P_L\gamma_{\mu\nu\rho}b)(\bar{e}\gamma^{\mu\nu\rho}\tau)$	$^{\mathrm{C}}$
5sbetau	$\frac{4\tilde{G}_F}{\sqrt{2}}(\bar{s}P_Rb)(\bar{e}\tau)$	$\mathbf{C}$
5psbetau	$\frac{4\tilde{G}_F}{\sqrt{2}}(\bar{s}P_Lb)(\bar{e}\tau)$	$\mathbf{C}$
7sbetau	$\frac{4\tilde{G}_F}{\sqrt{2}}(\bar{s}P_R\sigma^{\mu\nu}b)(\bar{e}\sigma_{\mu\nu}\tau)$	$\mathbf{C}$
7psbetau	$\frac{4\tilde{G}_F}{\sqrt{2}}(\bar{s}P_L\sigma^{\mu\nu}b)(\bar{e}\sigma_{\mu\nu}\tau)$	$\mathbf{C}$
9sbetau	$\frac{4\check{G}_F}{\sqrt{2}}(\bar{s}P_R\gamma_{\mu\nu\rho\sigma}b)(\bar{e}\gamma^{\mu\nu\rho\sigma}\tau)$	$\mathbf{C}$
9psbetau	$\frac{4G_F^{\Gamma}}{\sqrt{2}}(\bar{s}P_R\gamma_{\mu\nu\rho\sigma}b)(\bar{e}\gamma^{\mu\nu\rho\sigma}\tau)$ $\frac{4G_F}{\sqrt{2}}(\bar{s}P_L\gamma_{\mu\nu\rho\sigma}b)(\bar{e}\gamma^{\mu\nu\rho\sigma}\tau)$	C

#### sbmue

WC name	Operator	Type
1sbmue	$\frac{4G_F}{\sqrt{2}}(\bar{s}P_R\gamma_\mu b)(\bar{\mu}\gamma^\mu e)$	C
1psbmue	$\frac{4\widetilde{G_F}}{\sqrt{2}}(\bar{s}P_L\gamma_\mu b)(\bar{\mu}\gamma^\mu e)$	$\mathbf{C}$
3sbmue	$\frac{4G_F}{\sqrt{2}}(\bar{s}P_R\gamma_{\mu\nu\rho}b)(\bar{\mu}\gamma^{\mu\nu\rho}e)$	$^{\mathrm{C}}$
3psbmue	$\frac{4G_F}{\sqrt{2}}(\bar{s}P_L\gamma_{\mu\nu\rho}b)(\bar{\mu}\gamma^{\mu\nu\rho}e)$	$^{\mathrm{C}}$
5sbmue	$\frac{4\widetilde{G_F}}{\sqrt{2}}(\bar{s}P_Rb)(\bar{\mu}e)$	$^{\mathrm{C}}$
5psbmue	$\frac{4\widetilde{G}_F}{\sqrt{2}}(\bar{s}P_Lb)(\bar{\mu}e)$	$^{\mathrm{C}}$
7sbmue	$\frac{4\widetilde{G_F}}{\sqrt{2}}(\bar{s}P_R\sigma^{\mu\nu}b)(\bar{\mu}\sigma_{\mu\nu}e)$	$^{\mathrm{C}}$
7psbmue	$\frac{4\widetilde{G_F}}{\sqrt{2}}(\bar{s}P_L\sigma^{\mu\nu}b)(\bar{\mu}\sigma_{\mu\nu}e)$	$\mathbf{C}$
9sbmue	$\frac{4\ddot{G_F}}{\sqrt{2}}(\bar{s}P_R\gamma_{\mu\nu\rho\sigma}b)(\bar{\mu}\gamma^{\mu\nu\rho\sigma}e)$	$\mathbf{C}$
9psbmue	$ \frac{\frac{4G_F}{\sqrt{2}}(\bar{s}P_L\sigma^{\mu\nu}b)(\bar{\mu}\sigma_{\mu\nu}e)}{\frac{4G_F}{\sqrt{2}}(\bar{s}P_R\gamma_{\mu\nu\rho\sigma}b)(\bar{\mu}\gamma^{\mu\nu\rho\sigma}e)}  \frac{4G_F}{\sqrt{2}}(\bar{s}P_L\gamma_{\mu\nu\rho\sigma}b)(\bar{\mu}\gamma^{\mu\nu\rho\sigma}e) $	$^{\mathrm{C}}$

#### sbmutau

WC name	Operator	Type
1sbmutau	$\frac{4G_F}{\sqrt{2}}(\bar{s}P_R\gamma_\mu b)(\bar{\mu}\gamma^\mu\tau)$	C
1psbmutau	$rac{4G_F}{\sqrt{2}}(ar{s}P_L\gamma_\mu b)(ar{\mu}\gamma^\mu au)$	$\mathbf{C}$
3sbmutau	$\frac{4\tilde{G}_F}{\sqrt{2}}(\bar{s}P_R\gamma_{\mu\nu\rho}b)(\bar{\mu}\gamma^{\mu\nu\rho}\tau)$	$\mathbf{C}$
3psbmutau	$\frac{4\tilde{G}_F}{\sqrt{2}}(\bar{s}P_L\gamma_{\mu\nu\rho}b)(\bar{\mu}\gamma^{\mu\nu\rho}\tau)$	$\mathbf{C}$
5sbmutau	$\frac{4\widetilde{G}_F^c}{\sqrt{2}}(\bar{s}P_Rb)(\bar{\mu}\tau)$	$\mathbf{C}$
5psbmutau	$\frac{4\tilde{G}_F}{\sqrt{2}}(\bar{s}P_Lb)(\bar{\mu}\tau)$	$\mathbf{C}$
7sbmutau	$\frac{4\tilde{G}_{F}}{\sqrt{2}}(\bar{s}P_{R}\sigma^{\mu\nu}b)(\bar{\mu}\sigma_{\mu\nu}\tau)$	$\mathbf{C}$
7psbmutau	$\frac{4 \overleftarrow{G_F}}{\sqrt{2}} (\bar{s} P_L \sigma^{\mu\nu} b) (\bar{\mu} \sigma_{\mu\nu} \tau)$	$\mathbf{C}$
9sbmutau	$\frac{4\check{G}_{F}}{\sqrt{2}}(\bar{s}P_{R}\gamma_{\mu\nu\rho\sigma}b)(\bar{\mu}\gamma^{\mu\nu\rho\sigma}\tau)$	$\mathbf{C}$
9psbmutau	$\frac{\frac{4G_F}{\sqrt{2}}(\bar{s}P_R\gamma_{\mu\nu\rho\sigma}b)(\bar{\mu}\gamma^{\mu\nu\rho\sigma}\tau)}{\frac{4G_F}{\sqrt{2}}(\bar{s}P_L\gamma_{\mu\nu\rho\sigma}b)(\bar{\mu}\gamma^{\mu\nu\rho\sigma}\tau)}$	С

#### sbtaue

WC name	Operator	Type
1sbtaue	$\frac{4G_F}{\sqrt{2}}(\bar{s}P_R\gamma_\mu b)(\bar{\tau}\gamma^\mu e)$	C
1psbtaue	$\frac{4G_F}{\sqrt{2}}(\bar{s}P_L\gamma_\mu b)(\bar{\tau}\gamma^\mu e)$	$\mathbf{C}$
3sbtaue	$\frac{\sqrt{2}}{\sqrt{2}} \frac{(\bar{s}P_R)_{\mu\nu}(\bar{r})}{(\bar{r}\gamma^{\mu}e)}$ $\frac{4G_F}{\sqrt{2}} (\bar{s}P_R\gamma_{\mu\nu\rho}b)(\bar{\tau}\gamma^{\mu\nu\rho}e)$	$\mathbf{C}$
3psbtaue	$\frac{4G_F}{\sqrt{2}}(\bar{s}P_L\gamma_{\mu\nu\rho}b)(\bar{\tau}\gamma^{\mu\nu\rho}e)$	$\mathbf{C}$
5sbtaue	$rac{4G_F}{\sqrt{2}}(ar{s}P_Rb)(ar{ au}e)$	$\mathbf{C}$
5psbtaue	$\frac{4\tilde{G}_F}{\sqrt{2}}(\bar{s}P_Lb)(\bar{\tau}e)$	$\mathbf{C}$
7sbtaue	$\frac{4G_F}{\sqrt{2}}(\bar{s}P_R\sigma^{\mu\nu}b)(\bar{\tau}\sigma_{\mu\nu}e)$	$\mathbf{C}$
7psbtaue	$\frac{4G_F}{\sqrt{2}}(\bar{s}P_L\sigma^{\mu\nu}b)(\bar{\tau}\sigma_{\mu\nu}e)$	$\mathbf{C}$
9sbtaue	$\frac{4\ddot{G_F}}{\sqrt{2}}(\bar{s}P_R\gamma_{\mu\nu\rho\sigma}b)(\bar{\tau}\gamma^{\mu\nu\rho\sigma}e)$	$\mathbf{C}$
9psbtaue	$ \frac{\frac{4G_F}{\sqrt{2}}(\bar{s}P_L\sigma^{\mu\nu}b)(\bar{\tau}\sigma_{\mu\nu}e)}{\frac{4G_F}{\sqrt{2}}(\bar{s}P_R\gamma_{\mu\nu\rho\sigma}b)(\bar{\tau}\gamma^{\mu\nu\rho\sigma}e)} \\ \frac{4G_F}{\sqrt{2}}(\bar{s}P_L\gamma_{\mu\nu\rho\sigma}b)(\bar{\tau}\gamma^{\mu\nu\rho\sigma}e) $	$^{\mathrm{C}}$

## ${\tt sbtaumu}$

WC name	Operator	Type
1sbtaumu	$\frac{4G_F}{\sqrt{2}}(\bar{s}P_R\gamma_\mu b)(\bar{\tau}\gamma^\mu\mu)$	C
1psbtaumu	$\frac{4\tilde{G}_F}{\sqrt{2}}(\bar{s}P_L\gamma_\mu b)(\bar{\tau}\gamma^\mu\mu)$	$^{\mathrm{C}}$
3sbtaumu	$\frac{4\tilde{G}_F}{\sqrt{2}}(\bar{s}P_R\gamma_{\mu\nu\rho}b)(\bar{\tau}\gamma^{\mu\nu\rho}\mu)$	$^{\mathrm{C}}$
3psbtaumu	$\frac{4\check{G}_F}{\sqrt{2}}(\bar{s}P_L\gamma_{\mu\nu\rho}b)(\bar{\tau}\gamma^{\mu\nu\rho}\mu)$	$\mathbf{C}$
5sbtaumu	$\frac{4G_F}{\sqrt{2}}(\bar{s}P_R\gamma_\mu b)(\bar{\tau}\gamma^\mu\mu)$ $\frac{4G_F}{\sqrt{2}}(\bar{s}P_L\gamma_\mu b)(\bar{\tau}\gamma^\mu\mu)$ $\frac{4G_F}{\sqrt{2}}(\bar{s}P_R\gamma_{\mu\nu\rho}b)(\bar{\tau}\gamma^{\mu\nu\rho}\mu)$ $\frac{4G_F}{\sqrt{2}}(\bar{s}P_L\gamma_{\mu\nu\rho}b)(\bar{\tau}\gamma^{\mu\nu\rho}\mu)$ $\frac{4G_F}{\sqrt{2}}(\bar{s}P_L\gamma_{\mu\nu\rho}b)(\bar{\tau}\gamma^{\mu\nu\rho}\mu)$	$\mathbf{C}$

WC name	Operator	Type
5psbtaumu	$\frac{4G_F}{\sqrt{2}}(\bar{s}P_Lb)(\bar{\tau}\mu)$	C
7sbtaumu	$\frac{4\tilde{G}_F}{\sqrt{2}}(\bar{s}P_R\sigma^{\mu\nu}b)(\bar{\tau}\sigma_{\mu\nu}\mu)$	$\mathbf{C}$
7psbtaumu	$\frac{4\check{G}_F^{\sigma}}{\sqrt{2}}(\bar{s}P_L\sigma^{\mu u}b)(\bar{ au}\sigma_{\mu u}\mu)$	$\mathbf{C}$
9sbtaumu	$\frac{4 \tilde{G}_F}{\sqrt{2}} (\bar{s} P_R \gamma_{\mu\nu\rho\sigma} b) (\bar{\tau} \gamma^{\mu\nu\rho\sigma} \mu)$	$\mathbf{C}$
9psbtaumu	$\frac{\frac{4G_F}{\sqrt{2}}(\bar{s}P_Lb)(\bar{\tau}\mu)}{\frac{4G_F}{\sqrt{2}}(\bar{s}P_R\sigma^{\mu\nu}b)(\bar{\tau}\sigma_{\mu\nu}\mu)}$ $\frac{\frac{4G_F}{\sqrt{2}}(\bar{s}P_L\sigma^{\mu\nu}b)(\bar{\tau}\sigma_{\mu\nu}\mu)}{\frac{4G_F}{\sqrt{2}}(\bar{s}P_R\gamma_{\mu\nu\rho\sigma}b)(\bar{\tau}\gamma^{\mu\nu\rho\sigma}\mu)}$ $\frac{4G_F}{\sqrt{2}}(\bar{s}P_L\gamma_{\mu\nu\rho\sigma}b)(\bar{\tau}\gamma^{\mu\nu\rho\sigma}\mu)$	С

#### dbemu

WC name	Operator	Type
1dbemu	$\frac{4G_F}{\sqrt{2}}(\bar{d}P_R\gamma_\mu b)(\bar{e}\gamma^\mu\mu)$	
1pdbemu	$\frac{\frac{4\ddot{G}_{F}^{r}}{\sqrt{2}}(\bar{d}P_{L}\gamma_{\mu}b)(\bar{e}\gamma^{\mu}\mu)}{\frac{4\ddot{G}_{F}}{\sqrt{2}}(\bar{d}P_{R}\gamma_{\mu\nu\rho}b)(\bar{e}\gamma^{\mu\nu\rho}\mu)}$	$\mathbf{C}$
3dbemu	$\frac{4\tilde{G}_F}{\sqrt{2}}(\bar{d}P_R\gamma_{\mu\nu\rho}b)(\bar{e}\gamma^{\mu\nu\rho}\mu)$	$\mathbf{C}$
3pdbemu	$\frac{4\check{G}_F}{\sqrt{2}}(\bar{d}P_L\gamma_{\mu\nu\rho}b)(\bar{e}\gamma^{\mu\nu\rho}\mu)$	$\mathbf{C}$
5dbemu	$\frac{4\check{G_F}}{\sqrt{2}}(\bar{d}P_Rb)(\bar{e}\mu)$	$\mathbf{C}$
5pdbemu	$\frac{4\check{G_F}}{\sqrt{2}}(\bar{d}P_Lb)(\bar{e}\mu)$	$\mathbf{C}$
7dbemu	$\frac{4 \overleftarrow{G_F}}{\sqrt{2}} (ar{d} P_R \sigma^{\mu  u} b) (ar{e} \sigma_{\mu  u} \mu)$	$\mathbf{C}$
7pdbemu	$\frac{4\widetilde{G_F}}{\sqrt{2}}(\bar{d}P_L\sigma^{\mu u}b)(\bar{e}\sigma_{\mu u}\mu)$	$\mathbf{C}$
9dbemu	$\frac{4\overleftarrow{G_F}}{\sqrt{2}}(\bar{d}P_R\gamma_{\mu\nu\rho\sigma}b)(\bar{e}\gamma^{\mu\nu\rho\sigma}\mu)$	$\mathbf{C}$
9pdbemu	$\frac{\frac{4G_F}{\sqrt{2}}(\bar{d}P_R\gamma_{\mu\nu\rho\sigma}b)(\bar{e}\gamma^{\mu\nu\rho\sigma}\mu)}{\frac{4G_F}{\sqrt{2}}(\bar{d}P_L\gamma_{\mu\nu\rho\sigma}b)(\bar{e}\gamma^{\mu\nu\rho\sigma}\mu)}$	$\mathbf{C}$

## ${\tt dbetau}$

WC name	Operator	Type
1dbetau	$\frac{\frac{4G_F}{\sqrt{2}}(\bar{d}P_R\gamma_\mu b)(\bar{e}\gamma^\mu\tau)}{\frac{4G_F}{\sqrt{2}}(\bar{d}P_L\gamma_\mu b)(\bar{e}\gamma^\mu\tau)}$ $\frac{\frac{4G_F}{\sqrt{2}}(\bar{d}P_R\gamma_{\mu\nu\rho}b)(\bar{e}\gamma^{\mu\nu\rho}\tau)}{\frac{4G_F}{\sqrt{2}}(\bar{d}P_R\gamma_{\mu\nu\rho}b)(\bar{e}\gamma^{\mu\nu\rho}\tau)}$	С
1pdbetau	$\frac{4 \overleftarrow{G_F}}{\sqrt{2}} (\bar{d} P_L \gamma_\mu b) (\bar{e} \gamma^\mu  au)$	$\mathbf{C}$
3dbetau	$\frac{4G_F}{\sqrt{2}}(\bar{d}P_R\gamma_{\mu\nu\rho}b)(\bar{e}\gamma^{\mu\nu\rho}\tau)$	$\mathbf{C}$
3pdbetau	$\frac{4\tilde{G}_{F}}{\sqrt{2}}(\bar{d}P_{L}\gamma_{\mu u ho}b)(\bar{e}\gamma^{\mu u ho} au)$	$^{\mathrm{C}}$
5dbetau	$\frac{4\check{G}_F}{\sqrt{2}}(\bar{d}P_Rb)(\bar{e} au)$	$^{\mathrm{C}}$
5pdbetau	$\frac{4\overleftarrow{G_F}}{\sqrt{2}}(\bar{d}P_Lb)(\bar{e} au)$	$^{\mathrm{C}}$
7dbetau	$\frac{4 \overleftarrow{G_F}}{\sqrt{2}} (\bar{d} P_R \sigma^{\mu \nu} b) (\bar{e} \sigma_{\mu \nu} \tau)$	$^{\mathrm{C}}$
7pdbetau	$\frac{4G_F}{\sqrt{2}}(\bar{d}P_L\sigma^{\mu u}b)(\bar{e}\sigma_{\mu u} au)$	$\mathbf{C}$
9dbetau	$\frac{4\check{G}_F}{\sqrt{2}}(\bar{d}P_R\gamma_{\mu\nu\rho\sigma}b)(\bar{e}\gamma^{\mu\nu\rho\sigma}\tau)$	$\mathbf{C}$
9pdbetau	$\frac{\frac{4G_F}{\sqrt{2}}(\bar{d}P_R\gamma_{\mu\nu\rho\sigma}b)(\bar{e}\gamma^{\mu\nu\rho\sigma}\tau)}{\frac{4G_F}{\sqrt{2}}(\bar{d}P_L\gamma_{\mu\nu\rho\sigma}b)(\bar{e}\gamma^{\mu\nu\rho\sigma}\tau)}$	$^{\mathrm{C}}$

## dbmue

WC name	Operator	Type
1dbmue	$\begin{array}{l} \frac{4G_F}{\sqrt{2}}(\bar{d}P_R\gamma_\mu b)(\bar{\mu}\gamma^\mu e) \\ \frac{4G_F}{\sqrt{2}}(\bar{d}P_L\gamma_\mu b)(\bar{\mu}\gamma^\mu e) \\ \frac{4G_F}{\sqrt{2}}(\bar{d}P_R\gamma_{\mu\nu\rho} b)(\bar{\mu}\gamma^{\mu\nu\rho} e) \end{array}$	C
1pdbmue	$\frac{4 \tilde{G}_F}{\sqrt{2}} (\bar{d} P_L \gamma_\mu b) (\bar{\mu} \gamma^\mu e)$	$\mathbf{C}$
3dbmue	$\frac{4 \tilde{G}_F}{\sqrt{2}} (\bar{d} P_R \gamma_{\mu\nu\rho} b) (\bar{\mu} \gamma^{\mu\nu\rho} e)$	$\mathbf{C}$
3pdbmue	$rac{4G_F}{\sqrt{2}}(ar{d}P_L\gamma_{\mu u ho}b)(ar{\mu}\gamma^{\mu u ho}e)$	$\mathbf{C}$
5dbmue	$\frac{4\check{G}_F}{\sqrt{2}}(\bar{d}P_Rb)(\bar{\mu}e)$	$\mathbf{C}$
5pdbmue	$\frac{4\check{G}_F}{\sqrt{2}}(\bar{d}P_Lb)(\bar{\mu}e)$	$\mathbf{C}$
7dbmue	$\frac{\frac{4G_F}{\sqrt{2}}(\bar{d}P_R\sigma^{\mu\nu}b)(\bar{\mu}\sigma_{\mu\nu}e)}{\frac{4G_F}{\sqrt{2}}(\bar{d}P_L\sigma^{\mu\nu}b)(\bar{\mu}\sigma_{\mu\nu}e)}$	$\mathbf{C}$
7pdbmue	$\frac{4\tilde{G}_F}{\sqrt{2}}(\bar{d}P_L\sigma^{\mu\nu}b)(\bar{\mu}\sigma_{\mu\nu}e)$	$\mathbf{C}$
9dbmue	$\frac{4\check{G}_F}{\sqrt{2}}(\bar{d}P_R\gamma_{\mu\nu\rho\sigma}b)(\bar{\mu}\gamma^{\mu\nu\rho\sigma}e)$	$\mathbf{C}$
9pdbmue	$\frac{4\ddot{G}_F}{\sqrt{2}}(\bar{d}P_R\gamma_{\mu\nu\rho\sigma}b)(\bar{\mu}\gamma^{\mu\nu\rho\sigma}e)$ $\frac{4G_F}{\sqrt{2}}(\bar{d}P_L\gamma_{\mu\nu\rho\sigma}b)(\bar{\mu}\gamma^{\mu\nu\rho\sigma}e)$	С

## ${\tt dbmutau}$

WC name	Operator	Type
1dbmutau	$\frac{4G_F}{\sqrt{2}}(\bar{d}P_R\gamma_\mu b)(\bar{\mu}\gamma^\mu\tau)$	С
1pdbmutau	$\begin{array}{l} \frac{4G_F}{\sqrt{2}}(\bar{d}P_R\gamma_\mu b)(\bar{\mu}\gamma^\mu\tau) \\ \frac{4G_F}{\sqrt{2}}(\bar{d}P_L\gamma_\mu b)(\bar{\mu}\gamma^\mu\tau) \\ \frac{4G_F}{\sqrt{2}}(\bar{d}P_R\gamma_{\mu\nu\rho}b)(\bar{\mu}\gamma^{\mu\nu\rho}\tau) \end{array}$	$\mathbf{C}$
3dbmutau	$\frac{4\tilde{G}_F}{\sqrt{2}}(\bar{d}P_R\gamma_{\mu\nu\rho}b)(\bar{\mu}\gamma^{\mu\nu\rho}\tau)$	$^{\mathrm{C}}$
3pdbmutau	$\frac{4G_F}{\sqrt{2}}(\bar{d}P_L\gamma_{\mu\nu\rho}b)(\bar{\mu}\gamma^{\mu\nu\rho}\tau)$	$\mathbf{C}$
5dbmutau	$\frac{4G_F}{\sqrt{2}}(\bar{d}P_Rb)(\bar{\mu}\tau)$	$^{\mathrm{C}}$
5pdbmutau	$\frac{4\ddot{G}_F}{\sqrt{2}}(\bar{d}P_Lb)(\bar{\mu}\tau)$	$^{\mathrm{C}}$
7dbmutau	$\frac{4\ddot{G}_F}{\sqrt{2}}(\bar{d}P_R\sigma^{\mu\nu}b)(\bar{\mu}\sigma_{\mu\nu}\tau)$	$^{\mathrm{C}}$
7pdbmutau	$\frac{4\tilde{G}_F}{\sqrt{2}}(\bar{d}P_L\sigma^{\mu\nu}b)(\bar{\mu}\sigma_{\mu\nu}\tau)$	$^{\mathrm{C}}$
9dbmutau	$\frac{4\tilde{G}_F}{\sqrt{2}}(\bar{d}P_R\gamma_{\mu\nu\rho\sigma}b)(\bar{\mu}\gamma^{\mu\nu\rho\sigma}\tau)$	$\mathbf{C}$
9pdbmutau	$\frac{4\check{G}_F^F}{\sqrt{2}}(\bar{d}P_R\gamma_{\mu\nu\rho\sigma}b)(\bar{\mu}\gamma^{\mu\nu\rho\sigma}\tau)$ $\frac{4G_F}{\sqrt{2}}(\bar{d}P_L\gamma_{\mu\nu\rho\sigma}b)(\bar{\mu}\gamma^{\mu\nu\rho\sigma}\tau)$	С

## dbtaue

WC name	Operator	Type
1dbtaue	$\frac{4G_F}{\sqrt{2}}(\bar{d}P_R\gamma_\mu b)(\bar{\tau}\gamma^\mu e)$	С
1pdbtaue	$rac{4G_F}{\sqrt{2}}(ar{d}P_R\gamma_\mu b)(ar{ au}\gamma^\mu e) \ rac{4G_F}{\sqrt{2}}(ar{d}P_L\gamma_\mu b)(ar{ au}\gamma^\mu e)$	$\mathbf{C}$
3dbtaue	$\frac{4G_F}{\sqrt{2}}(\bar{d}P_R\gamma_{\mu\nu\rho}b)(\bar{\tau}\gamma^{\mu\nu\rho}e)$	$\mathbf{C}$
3pdbtaue	$\frac{4G_F}{\sqrt{2}}(\bar{d}P_L\gamma_{\mu\nu\rho}b)(\bar{\tau}\gamma^{\mu\nu\rho}e)$	$\mathbf{C}$
5dbtaue	$\begin{array}{l} \frac{4G_F}{\sqrt{2}}(\bar{d}P_R\gamma_{\mu\nu\rho}b)(\bar{\tau}\gamma^{\mu\nu\rho}e) \\ \frac{4G_F}{\sqrt{2}}(\bar{d}P_L\gamma_{\mu\nu\rho}b)(\bar{\tau}\gamma^{\mu\nu\rho}e) \\ \frac{4G_F}{\sqrt{2}}(\bar{d}P_Rb)(\bar{\tau}e) \end{array}$	$\mathbf{C}$

WC name	Operator	Type
5pdbtaue	$\frac{\frac{4G_F}{\sqrt{2}}(\bar{d}P_Lb)(\bar{\tau}e)}{\frac{4G_F}{\sqrt{2}}(\bar{d}P_R\sigma^{\mu\nu}b)(\bar{\tau}\sigma_{\mu\nu}e)}$ $\frac{\frac{4G_F}{\sqrt{2}}(\bar{d}P_L\sigma^{\mu\nu}b)(\bar{\tau}\sigma_{\mu\nu}e)}{\sqrt{2}}$	C
7dbtaue	$\frac{4 \overleftarrow{Q_F}}{\sqrt{2}} (\overline{d} P_R \sigma^{\mu  u} b) (\overline{ au} \sigma_{\mu  u} e)$	$\mathbf{C}$
7pdbtaue	$\frac{4G_F}{\sqrt{2}}(\bar{d}P_L\sigma^{\mu\nu}b)(\bar{\tau}\sigma_{\mu\nu}e)$	$\mathbf{C}$
9dbtaue	$\frac{\frac{4G_F}{\sqrt{2}}(\bar{d}P_R\gamma_{\mu\nu\rho\sigma}b)(\bar{\tau}\gamma^{\mu\nu\rho\sigma}e)}{\frac{4G_F}{\sqrt{2}}(\bar{d}P_L\gamma_{\mu\nu\rho\sigma}b)(\bar{\tau}\gamma^{\mu\nu\rho\sigma}e)}$	$\mathbf{C}$
9pdbtaue	$\frac{4G_F}{\sqrt{2}}(\bar{d}P_L\gamma_{\mu\nu\rho\sigma}b)(\bar{\tau}\gamma^{\mu\nu\rho\sigma}e)$	С

## ${\tt dbtaumu}$

WC name	Operator	Type
1dbtaumu	$\frac{4G_F}{\sqrt{2}}(\bar{d}P_R\gamma_\mu b)(\bar{\tau}\gamma^\mu\mu)$	С
1pdbtaumu	$rac{4G_F}{\sqrt{2}}(ar{d}P_R\gamma_\mu b)(ar{ au}\gamma^\mu\mu) \ rac{4G_F}{\sqrt{2}}(ar{d}P_L\gamma_\mu b)(ar{ au}\gamma^\mu\mu)$	$^{\mathrm{C}}$
3dbtaumu	$\frac{4G_F}{\sqrt{2}}(\bar{d}P_R\gamma_{\mu\nu\rho}b)(\bar{\tau}\gamma^{\mu\nu\rho}\mu)$	$\mathbf{C}$
3pdbtaumu	$\frac{4G_F}{\sqrt{2}}(\bar{d}P_L\gamma_{\mu\nu\rho}b)(\bar{\tau}\gamma^{\mu\nu\rho}\mu)$	$\mathbf{C}$
5dbtaumu	$\frac{4\ddot{G}_F}{\sqrt{2}}(\bar{d}P_Rb)(\bar{\tau}\mu)$	$\mathbf{C}$
5pdbtaumu	$\frac{4\ddot{G}_F}{\sqrt{2}}(\bar{d}P_Lb)(\bar{\tau}\mu)$	$\mathbf{C}$
7dbtaumu	$\frac{4G_F}{\sqrt{2}}(\bar{d}P_R\sigma^{\mu\nu}b)(\bar{\tau}\sigma_{\mu\nu}\mu)$	$\mathbf{C}$
7pdbtaumu	$\frac{4\ddot{G}_F}{\sqrt{2}}(\bar{d}P_L\sigma^{\mu\nu}b)(\bar{\tau}\sigma_{\mu\nu}\mu)$	$\mathbf{C}$
9dbtaumu	$\frac{4\ddot{G_F}}{\sqrt{2}}(\bar{d}P_R\gamma_{\mu\nu\rho\sigma}b)(\bar{\tau}\gamma^{\mu\nu\rho\sigma}\mu)$	$\mathbf{C}$
9pdbtaumu	$\frac{\frac{4G_F}{\sqrt{2}}(\bar{d}P_R\gamma_{\mu\nu\rho\sigma}b)(\bar{\tau}\gamma^{\mu\nu\rho\sigma}\mu)}{\frac{4G_F}{\sqrt{2}}(\bar{d}P_L\gamma_{\mu\nu\rho\sigma}b)(\bar{\tau}\gamma^{\mu\nu\rho\sigma}\mu)}$	$\mathbf{C}$

#### sbnunu

WC name	Operator	Type
nu1sbee	$\frac{4G_F}{\sqrt{2}}(\bar{s}P_R\gamma_\mu b)(\bar{\nu}_e\gamma^\mu\nu_e)$	C
nu1psbee	$\frac{4\widetilde{Q}_F^2}{\sqrt{2}}(\bar{s}P_L\gamma_\mu b)(\bar{\nu}_e\gamma^\mu\nu_e)$	$\mathbf{C}$
nu1sbmumu	$\frac{4\widetilde{Q}_F^{\Gamma}}{\sqrt{2}}(\bar{s}P_R\gamma_{\mu}b)(\bar{\nu}_{\mu}\gamma^{\mu}\nu_{\mu})$	$\mathbf{C}$
nu1psbmumu	$rac{4reve{Q_F^F}}{\sqrt{2}}(ar{s}P_L\gamma_\mu b)(ar{ u}_\mu\gamma^\mu u_\mu)$	$\mathbf{C}$
nu1sbtautau	$\frac{4\overset{Q^{r}}{G_{F}}}{\sqrt{2}}(\bar{s}P_{R}\gamma_{\mu}b)(\bar{\nu}_{ au}\gamma^{\mu}\nu_{ au})$	$\mathbf{C}$
nu1psbtautau	$\frac{4\widetilde{G_{F}}}{\sqrt{2}}(\bar{s}P_{L}\gamma_{\mu}b)(\bar{\nu}_{ au}\gamma^{\mu} u_{ au})$	$\mathbf{C}$
nu1sbemu	$\frac{4\widetilde{G_F}}{\sqrt{2}}(\bar{s}P_R\gamma_\mu b)(\bar{\nu}_e\gamma^\mu u_\mu)$	$\mathbf{C}$
nu1psbemu	$\frac{4\ddot{G}_F^2}{\sqrt{2}}(\bar{s}P_L\gamma_\mu b)(\bar{ u}_e\gamma^\mu u_\mu)$	$\mathbf{C}$
nu1sbmue	$\frac{4\overset{\circ}{Q_{F}^{2}}}{\sqrt{2}}(\bar{s}P_{R}\gamma_{\mu}b)(\bar{\nu}_{\mu}\gamma^{\mu}\nu_{e})$	$\mathbf{C}$
nu1psbmue	$\frac{4\overset{\circ}{V_L}^2}{\sqrt{2}}(\bar{s}P_L\gamma_\mu b)(\bar{\nu}_\mu\gamma^\mu\nu_e)$	$\mathbf{C}$
nu1sbetau	$rac{4Q_F^2}{\sqrt{2}}(ar{s}P_R\gamma_\mu b)(ar{ u}_e\gamma^\mu u_ au)$	$\mathbf{C}$
nu1psbetau	$rac{4igangle G_F}{\sqrt{2}}(ar{s}P_L\gamma_\mu b)(ar{ u}_e\gamma^\mu u_ au)$	$^{\mathrm{C}}$

WC name	Operator	Type
nu1sbtaue	$\frac{4G_F}{\sqrt{2}}(\bar{s}P_R\gamma_\mu b)(\bar{\nu}_\tau\gamma^\mu\nu_e)$	$\overline{C}$
nu1psbtaue	$\frac{\frac{4G_F}{\sqrt{2}}(\bar{s}P_R\gamma_\mu b)(\bar{\nu}_\tau\gamma^\mu\nu_e)}{\frac{4G_F}{\sqrt{2}}(\bar{s}P_L\gamma_\mu b)(\bar{\nu}_\tau\gamma^\mu\nu_e)}$	$^{\mathrm{C}}$
nu1sbtaumu	$\frac{4G_F}{\sqrt{2}}(\bar{s}P_R\gamma_\mu b)(\bar{\nu}_\tau\gamma^\mu\nu_\mu)$	$\mathbf{C}$
nu1psbtaumu	$\frac{4 \overleftarrow{\delta_F}}{\sqrt{2}} (\bar{s} P_L \gamma_\mu b) (\bar{\nu}_ au \gamma^\mu  u_\mu)$	$\mathbf{C}$
nu1sbmutau	$rac{4 \check{G}_F}{\sqrt{2}} (ar{s} P_R \gamma_\mu b) (ar{ u}_\mu \gamma^\mu  u_ au)$	$\mathbf{C}$
nu1psbmutau	$\frac{4\widetilde{Q}_F^2}{\sqrt{2}}(\bar{s}P_L\gamma_\mu b)(\bar{\nu}_\mu\gamma^\mu u_ au)$	$^{\mathrm{C}}$

## dbnunu

WC name	Operator	Type
nu1dbee	$\frac{4G_F}{\sqrt{2}}(\bar{d}P_R\gamma_\mu b)(\bar{\nu}_e\gamma^\mu\nu_e)$	C
nu1pdbee	$\frac{4\check{G}_F}{\sqrt{2}}(\bar{d}P_L\gamma_\mu b)(\bar{ u}_e\gamma^\mu u_e)$	$^{\mathrm{C}}$
nu1dbmumu	$rac{4 \check{G_F}}{\sqrt{2}} (ar{d} P_R \gamma_\mu b) (ar{ u}_\mu \gamma^\mu  u_\mu)$	$\mathbf{C}$
nu1pdbmumu	$rac{4\check{G_F}}{\sqrt{2}}(ar{d}P_L\gamma_\mu b)(ar{ u}_\mu\gamma^\mu u_\mu)$	$\mathbf{C}$
nu1dbtautau	$rac{4\check{G_F}}{\sqrt{2}}(ar{d}P_R\gamma_\mu b)(ar{ u}_ au\gamma^\mu u_ au)$	$\mathbf{C}$
nu1pdbtautau	$rac{4\check{G_F}}{\sqrt{2}}(ar{d}P_L\gamma_\mu b)(ar{ u}_ au\gamma^\mu u_ au)$	$\mathbf{C}$
nu1dbemu	$rac{4 \check{G}_F}{\sqrt{2}} (ar{d} P_R \gamma_\mu b) (ar{ u}_e \gamma^\mu  u_\mu)$	$\mathbf{C}$
nu1pdbemu	$rac{4 \check{G}_F}{\sqrt{2}} (ar{d} P_L \gamma_\mu b) (ar{ u}_e \gamma^\mu  u_\mu)$	$^{\mathrm{C}}$
nu1dbmue	$rac{4\check{G_F}}{\sqrt{2}}(ar{d}P_R\gamma_\mu b)(ar{ u}_\mu\gamma^\mu u_e)$	$^{\mathrm{C}}$
nu1pdbmue	$rac{4\check{G}_F}{\sqrt{2}}(ar{d}P_L\gamma_\mu b)(ar{ u}_\mu\gamma^\mu u_e)$	$\mathbf{C}$
nu1dbetau	$rac{4 ar{G_F}}{\sqrt{2}} (ar{d} P_R \gamma_\mu b) (ar{ u}_e \gamma^\mu  u_ au)$	$\mathbf{C}$
nu1pdbetau	$\frac{4 \overleftarrow{G_F}}{\sqrt{2}} (\overline{d} P_L \gamma_\mu b) (\overline{\nu}_e \gamma^\mu  u_ au)$	$\mathbf{C}$
nu1dbtaue	$rac{4 ar{G_F}}{\sqrt{2}} (ar{d} P_R \gamma_\mu b) (ar{ u}_ au \gamma^\mu  u_e)$	$\mathbf{C}$
nu1pdbtaue	$rac{4\check{G}_F}{\sqrt{2}}(ar{d}P_L\gamma_\mu b)(ar{ u}_ au\gamma^\mu u_e)$	$\mathbf{C}$
nu1dbtaumu	$rac{4\check{G_F}}{\sqrt{2}}(ar{d}P_R\gamma_\mu b)(ar{ u}_ au\gamma^\mu u_\mu)$	$\mathbf{C}$
nu1pdbtaumu	$rac{4\check{G_F}}{\sqrt{2}}(ar{d}P_L\gamma_\mu b)(ar{ u}_ au\gamma^\mu u_\mu)$	$\mathbf{C}$
nu1dbmutau	$rac{4 \check{G_F}}{\sqrt{2}} (ar{d} P_R \gamma_\mu b) (ar{ u}_\mu \gamma^\mu  u_ au)$	$^{\mathrm{C}}$
nu1pdbmutau	$rac{4\check{G}_F}{\sqrt{2}}(ar{d}P_L\gamma_\mu b)(ar{ u}_\mu\gamma^\mu u_ au)$	$\mathbf{C}$

## sdsd

WC name	Operator	Type
1dsds	$\frac{4G_F}{\sqrt{2}}(ar{d}\gamma_\mu P_L s)(ar{d}\gamma^\mu P_L s)$	C
5dsds	$\frac{4G_F}{\sqrt{2}}(\bar{d}_{\alpha}P_Ls_{\beta})(\bar{d}_{\beta}P_Rs_{\alpha})$	$\mathbf{C}$
2dsds	$\frac{\frac{4G_F}{\sqrt{2}}(\bar{d}\gamma_{\mu}P_Ls)(\bar{d}\gamma^{\mu}P_Ls)}{\frac{4G_F}{\sqrt{2}}(\bar{d}_{\alpha}P_Ls_{\beta})(\bar{d}_{\beta}P_Rs_{\alpha})}$ $\frac{\frac{4G_F}{\sqrt{2}}(\bar{d}P_Ls)(\bar{d}P_Ls)}{\frac{4G_F}{\sqrt{2}}(\bar{d}P_Ls)}$	$^{\mathrm{C}}$

WC name	Operator	Type
1pdsds	$\frac{4G_F}{\sqrt{2}}(\bar{d}\gamma_\mu P_R s)(\bar{d}\gamma^\mu P_R s)$	С
3dsds	$\frac{4G_F}{\overline{C}}(\bar{d}_{\alpha}P_Ls_{\beta})(\bar{d}_{\beta}P_Ls_{\alpha})$	$\mathbf{C}$
2pdsds	$\frac{4G_F}{\sqrt{2}}(dP_Rs)(dP_Rs)$	$\mathbf{C}$
4dsds	$\frac{4\ddot{G}_F}{\sqrt{2}}(\bar{d}P_Ls)(\bar{d}P_Rs)$	$\mathbf{C}$
3pdsds	$rac{4ar{Q}_F}{\sqrt{2}}(ar{d}P_Ls)(ar{d}P_Rs) \ rac{4G_F}{\sqrt{2}}(ar{d}_lpha P_Rs_eta)(ar{d}_eta P_Rs_lpha)$	C

## usenu

WC name	Operator	Type
1usee	$\frac{4G_F}{\sqrt{2}}(\bar{u}P_R\gamma^{\mu}s)(\bar{e}\gamma_{\mu}\nu_e)$	C
5usee	$\frac{4\widetilde{G}_F^2}{\sqrt{2}}(\bar{u}P_Rs)(\bar{e} u_e)$	$\mathbf{C}$
1pusee	$\frac{4\check{G}_F}{\sqrt{2}}(\bar{u}P_L\gamma^{\mu}s)(\bar{e}\gamma_{\mu}\nu_e)$	$^{\mathrm{C}}$
5pusee	$\frac{4G_F}{\sqrt{2}}(\bar{u}P_Ls)(\bar{e}\nu_e)$	$\mathbf{C}$
7pusee	$\frac{4G_F}{\sqrt{2}}(\bar{u}P_L\sigma^{\mu\nu}s)(\bar{e}\sigma_{\mu\nu}\nu_e)$	$^{\mathrm{C}}$
1usemu	$\frac{4G_F}{\sqrt{2}}(\bar{u}P_R\gamma^{\mu}s)(\bar{e}\gamma_{\mu}\nu_{\mu})$	$^{\mathrm{C}}$
5usemu	$\frac{4G_F}{\sqrt{2}}(\bar{u}P_Rs)(\bar{e}\nu_\mu)$	$^{\mathrm{C}}$
1pusemu	$\frac{4G_F}{\sqrt{2}}(\bar{u}P_L\gamma^{\mu}s)(\bar{e}\gamma_{\mu}\nu_{\mu})$	$^{\mathrm{C}}$
5pusemu	$\frac{4G_F}{\sqrt{2}}(\bar{u}P_Ls)(\bar{e}\nu_\mu)$	$\mathbf{C}$
7pusemu	$\frac{4G_F}{\sqrt{2}}(\bar{u}P_L\sigma^{\mu\nu}s)(\bar{e}\sigma_{\mu\nu}\nu_{\mu})$	$\mathbf{C}$
1usetau	$\frac{4G_F}{\sqrt{2}}(\bar{u}P_R\gamma^{\mu}s)(\bar{e}\gamma_{\mu}\nu_{\tau})$	$\mathbf{C}$
5usetau	$\frac{4G_F}{\sqrt{2}}(\bar{u}P_Rs)(\bar{e}\nu_{\tau})$	$\mathbf{C}$
1pusetau	$\frac{4\widetilde{G}_F}{\sqrt{2}}(\bar{u}P_L\gamma^{\mu}s)(\bar{e}\gamma_{\mu}\nu_{ au})$	$^{\mathrm{C}}$
5pusetau	$\frac{4\overleftarrow{G}_F}{\sqrt{2}}(\bar{u}P_Ls)(\bar{e}\nu_{\tau})$	$^{\mathrm{C}}$
7pusetau	$\frac{4\tilde{G}_F^c}{\sqrt{2}}(\bar{u}P_L\sigma^{\mu\nu}s)(\bar{e}\sigma_{\mu\nu}\nu_{\tau})$	$^{\mathrm{C}}$

## usmunu

WC name	Operator	Type
1usmue	$\frac{4G_F}{\sqrt{2}}(\bar{u}P_R\gamma^\mu s)(\bar{\mu}\gamma_\mu \nu_e)$	C
5usmue	$\frac{4G_F}{\sqrt{2}}(\bar{u}P_Rs)(\bar{\mu}\nu_e)$	$\mathbf{C}$
1pusmue	$\frac{4G_F}{\sqrt{2}}(\bar{u}P_L\gamma^{\mu}s)(\bar{\mu}\gamma_{\mu}\nu_e)$	$\mathbf{C}$
5pusmue	$\frac{4\tilde{G}_F}{\sqrt{2}}(\bar{u}P_Ls)(\bar{\mu}\nu_e)$	$^{\mathrm{C}}$
7pusmue	$\frac{4G_F}{\sqrt{2}}(\bar{u}P_L\sigma^{\mu\nu}s)(\bar{\mu}\sigma_{\mu\nu}\nu_e)$	$\mathbf{C}$
1usmumu	$\frac{4\tilde{G}_F}{\sqrt{2}}(\bar{u}P_R\gamma^{\mu}s)(\bar{\mu}\gamma_{\mu}\nu_{\mu})$	$^{\mathrm{C}}$
5usmumu	$\begin{array}{l} \frac{4G_{F}}{\sqrt{2}}(\bar{u}P_{L}s)(\bar{\mu}\nu_{e}) \\ \frac{4G_{F}}{\sqrt{2}}(\bar{u}P_{L}\sigma^{\mu\nu}s)(\bar{\mu}\sigma_{\mu\nu}\nu_{e}) \\ \frac{4G_{F}}{\sqrt{2}}(\bar{u}P_{R}\gamma^{\mu}s)(\bar{\mu}\gamma_{\mu}\nu_{\mu}) \\ \frac{4G_{F}}{\sqrt{2}}(\bar{u}P_{R}s)(\bar{\mu}\nu_{\mu}) \end{array}$	$^{\mathrm{C}}$

WC name	Operator	Type
1pusmumu	$\frac{\frac{4G_F}{\sqrt{2}}(\bar{u}P_L\gamma^{\mu}s)(\bar{\mu}\gamma_{\mu}\nu_{\mu})}{\frac{4G_F}{\sqrt{2}}(\bar{u}P_Ls)(\bar{\mu}\nu_{\mu})}$ $\frac{\frac{4G_F}{\sqrt{2}}(\bar{u}P_L\sigma^{\mu\nu}s)(\bar{\mu}\sigma_{\mu\nu}\nu_{\mu})}{\sqrt{2}}$	C
5pusmumu	$\frac{4G_F}{\sqrt{2}}(\bar{u}P_Ls)(\bar{\mu}\nu_{\mu})$	$\mathbf{C}$
7pusmumu	$\frac{4G_F}{\sqrt{2}}(\bar{u}P_L\sigma^{\mu\nu}s)(\bar{\mu}\sigma_{\mu\nu}\nu_{\mu})$	$\mathbf{C}$
1usmutau	$rac{4G_F}{\sqrt{2}}(ar{u}P_R\gamma^\mu s)(ar{\mu}\gamma_\mu u_ au)$	$\mathbf{C}$
5usmutau	$\frac{4\tilde{G}_F}{\sqrt{2}}(\bar{u}P_Rs)(\bar{\mu}\nu_{\tau})$	$\mathbf{C}$
1pusmutau	$\frac{4\tilde{G}_F}{\sqrt{2}}(\bar{u}P_L\gamma^\mu s)(\bar{\mu}\gamma_\mu\nu_ au)$	$\mathbf{C}$
5pusmutau	$\frac{4\ddot{G}_F}{\sqrt{2}}(\bar{u}P_Ls)(\bar{\mu} u_{ au})$	$\mathbf{C}$
7pusmutau	$\frac{4G_F}{\sqrt{2}}(\bar{u}P_L\sigma^{\mu\nu}s)(\bar{\mu}\sigma_{\mu\nu}\nu_\tau)$	С

#### ustaunu

WC name	Operator	Type
1ustaue	$\frac{4G_F}{\sqrt{2}}(\bar{u}P_R\gamma^{\mu}s)(\bar{\tau}\gamma_{\mu}\nu_e)$	
5ustaue	$\frac{4\tilde{G}_F}{\sqrt{2}}(\bar{u}P_Rs)(\bar{\tau}\nu_e)$	$\mathbf{C}$
1pustaue	$\frac{4\tilde{G}_F}{\sqrt{2}}(\bar{u}P_L\gamma^{\mu}s)(\bar{\tau}\gamma_{\mu}\nu_e)$	$\mathbf{C}$
5pustaue	$\frac{4\tilde{G}_F}{\sqrt{2}}(\bar{u}P_Ls)(\bar{\tau}\nu_e)$	$\mathbf{C}$
7pustaue	$\frac{4\tilde{G}_F}{\sqrt{2}}(\bar{u}P_L\sigma^{\mu\nu}s)(\bar{\tau}\sigma_{\mu\nu}\nu_e)$	$\mathbf{C}$
1ustaumu	$\frac{4G_F}{\sqrt{2}}(\bar{u}P_R\gamma^{\mu}s)(\bar{\tau}\gamma_{\mu}\nu_{\mu})$	$\mathbf{C}$
5ustaumu	$\frac{4G_F^2}{\sqrt{2}}(\bar{u}P_Rs)(\bar{\tau}\nu_\mu)$	$\mathbf{C}$
1pustaumu	$\frac{4\tilde{G}_F}{\sqrt{2}}(\bar{u}P_L\gamma^\mu s)(\bar{\tau}\gamma_\mu  u_\mu)$	$\mathbf{C}$
5pustaumu	$\frac{4\tilde{G}_F}{\sqrt{2}}(\bar{u}P_Ls)(\bar{\tau}\nu_{\mu})$	$\mathbf{C}$
7pustaumu	$rac{4 \tilde{G}_F}{\sqrt{2}} (ar{u} P_L \sigma^{\mu  u} s) (ar{ au} \sigma_{\mu  u}  u_\mu)$	$\mathbf{C}$
1ustautau	$\frac{4G_F}{\sqrt{2}}(\bar{u}P_R\gamma^{\mu}s)(\bar{\tau}\gamma_{\mu}\nu_{\tau})$	$\mathbf{C}$
5ustautau	$\frac{4G_F}{\sqrt{2}}(\bar{u}P_Rs)(\bar{\tau}\nu_{\tau})$	$\mathbf{C}$
1pustautau	$rac{4 \check{G}_F^{ au}}{\sqrt{2}} (ar{u} P_L \gamma^\mu s) (ar{ au} \gamma_\mu  u_ au)$	$\mathbf{C}$
5pustautau	$\frac{4\tilde{G}_F}{\sqrt{2}}(\bar{u}P_Ls)(\bar{ au} u_{ au})$	$\mathbf{C}$
7pustautau	$\frac{4\overleftarrow{G_F}}{\sqrt{2}}(\bar{u}P_L\sigma^{\mu\nu}s)(\bar{\tau}\sigma_{\mu\nu}\nu_{\tau})$	$\mathbf{C}$

#### csenu

WC name	Operator	Type
1csee	$\frac{4G_F}{\sqrt{2}}(\bar{c}P_R\gamma^\mu s)(\bar{e}\gamma_\mu\nu_e)$	С
5csee	$\frac{4G_F}{\sqrt{2}}(\bar{c}P_Rs)(\bar{e}\nu_e)$	$\mathbf{C}$
1pcsee	$\frac{4G_F}{\sqrt{2}}(\bar{c}P_L\gamma^\mu s)(\bar{e}\gamma_\mu\nu_e)$	$\mathbf{C}$
5pcsee	$\begin{array}{l} \frac{4G_F}{\sqrt{2}}(\bar{c}P_R\gamma^\mu s)(\bar{e}\gamma_\mu\nu_e) \\ \frac{4G_F}{\sqrt{2}}(\bar{c}P_Rs)(\bar{e}\nu_e) \\ \frac{4G_F}{\sqrt{2}}(\bar{c}P_L\gamma^\mu s)(\bar{e}\gamma_\mu\nu_e) \\ \frac{4G_F}{\sqrt{2}}(\bar{c}P_Ls)(\bar{e}\nu_e) \end{array}$	С

WC name	Operator	Type
7pcsee	$\frac{4G_F}{\sqrt{2}}(\bar{c}P_L\sigma^{\mu\nu}s)(\bar{e}\sigma_{\mu\nu}\nu_e)$	C
1csemu	$\frac{4\tilde{G}_F}{\sqrt{2}}(\bar{c}P_R\gamma^\mu s)(\bar{e}\gamma_\mu \nu_\mu)$	$\mathbf{C}$
5csemu	$\frac{4 G_F^2}{\sqrt{2}} (\bar{c} P_R s) (\bar{e} \nu_\mu)$	$\mathbf{C}$
1pcsemu	$\frac{4 \tilde{G}_F}{\sqrt{2}} (\bar{c} P_L \gamma^\mu s) (\bar{e} \gamma_\mu \nu_\mu)$	$^{\mathrm{C}}$
5pcsemu	$\frac{4\tilde{G}_F}{\sqrt{2}}(\bar{c}P_Ls)(\bar{e}\nu_\mu)$	$^{\mathrm{C}}$
7pcsemu	$\frac{4G_F}{\sqrt{2}}(\bar{c}P_L\sigma^{\mu\nu}s)(\bar{e}\sigma_{\mu\nu}\nu_{\mu})$	$\mathbf{C}$
1csetau	$\frac{4\check{G}_F}{\sqrt{2}}(\bar{c}P_R\gamma^\mu s)(\bar{e}\gamma_\mu u_ au)$	$^{\mathrm{C}}$
5csetau	$\frac{4\tilde{G}_F}{\sqrt{2}}(\bar{c}P_Rs)(\bar{e}\nu_{\tau})$	$^{\mathrm{C}}$
1pcsetau	$\frac{4G_F}{\sqrt{2}}(\bar{c}P_L\gamma^{\mu}s)(\bar{e}\gamma_{\mu}\nu_{\tau})$	$\mathbf{C}$
5pcsetau	$\frac{4\tilde{G}_F}{\sqrt{2}}(\bar{c}P_Ls)(\bar{e}\nu_{\tau})$	$^{\mathrm{C}}$
7pcsetau	$\frac{4\widetilde{G}_F}{\sqrt{2}}(\bar{c}P_L\sigma^{\mu\nu}s)(\bar{e}\sigma_{\mu\nu}\nu_{ au})$	С

#### csmunu

WC name	Operator	Type
1csmue	$\frac{4G_F}{\sqrt{2}}(\bar{c}P_R\gamma^{\mu}s)(\bar{\mu}\gamma_{\mu}\nu_e)$	C
5csmue	$\frac{4\widetilde{G}_F^2}{\sqrt{2}}(\bar{c}P_Rs)(\bar{\mu}\nu_e)$	$\mathbf{C}$
1pcsmue	$\frac{4\widetilde{G}_F^2}{\sqrt{2}}(\bar{c}P_L\gamma^\mu s)(\bar{\mu}\gamma_\mu\nu_e)$	$\mathbf{C}$
5pcsmue	$\frac{4\widetilde{G}_F^2}{\sqrt{2}}(\bar{c}P_L s)(\bar{\mu}\nu_e)$	$^{\mathrm{C}}$
7pcsmue	$\frac{4\tilde{Q}_F^2}{\sqrt{2}}(\bar{c}P_L\sigma^{\mu\nu}s)(\bar{\mu}\sigma_{\mu\nu}\nu_e)$	$\mathbf{C}$
1csmumu	$\frac{4\tilde{G}_F^2}{\sqrt{2}}(\bar{c}P_R\gamma^\mu s)(\bar{\mu}\gamma_\mu\nu_\mu)$	$^{\mathrm{C}}$
5csmumu	$\frac{4\tilde{G}_F^2}{\sqrt{2}}(\bar{c}P_Rs)(\bar{\mu}\nu_{\mu})$	$\mathbf{C}$
1pcsmumu	$\frac{4\tilde{G}_F^2}{\sqrt{2}}(\bar{c}P_L\gamma^\mu s)(\bar{\mu}\gamma_\mu\nu_\mu)$	$\mathbf{C}$
5pcsmumu	$\frac{4\tilde{G}_F}{\sqrt{2}}(\bar{c}P_Ls)(\bar{\mu}\nu_{\mu})$	$\mathbf{C}$
7pcsmumu	$\frac{4\tilde{G}_F^2}{\sqrt{2}}(\bar{c}P_L\sigma^{\mu\nu}s)(\bar{\mu}\sigma_{\mu\nu}\nu_{\mu})$	$\mathbf{C}$
1csmutau	$\frac{4\widetilde{G}_F^2}{\sqrt{2}}(\bar{c}P_R\gamma^\mu s)(\bar{\mu}\gamma_\mu\nu_ au)$	$\mathbf{C}$
5csmutau	$\frac{4\widetilde{G}_F^2}{\sqrt{2}}(\bar{c}P_Rs)(\bar{\mu} u_{ au})$	$\mathbf{C}$
1pcsmutau	$\frac{4\widetilde{G}_F^2}{\sqrt{2}}(\bar{c}P_L\gamma^\mu s)(\bar{\mu}\gamma_\mu  u_ au)$	$\mathbf{C}$
5pcsmutau	$\frac{4\widetilde{G}_F^2}{\sqrt{2}}(\bar{c}P_L s)(\bar{\mu}\nu_{\tau})$	$\mathbf{C}$
7pcsmutau	$\frac{4\widetilde{G}_F^2}{\sqrt{2}}(\bar{c}P_L\sigma^{\mu\nu}s)(\bar{\mu}\sigma_{\mu\nu}\nu_{ au})$	$\mathbf{C}$

#### cstaunu

WC name	Operator	Type
1cstaue	$\frac{4G_F}{\sqrt{2}}(\bar{c}P_R\gamma^\mu s)(\bar{\tau}\gamma_\mu\nu_e)$	С

WC name	Operator	Type
5cstaue	$\frac{4G_F}{\sqrt{2}}(\bar{c}P_Rs)(\bar{\tau}\nu_e)$	C
1pcstaue	$\frac{4 \stackrel{Q}{G_F}}{\sqrt{2}} (\bar{c} P_L \gamma^\mu s) (\bar{\tau} \gamma_\mu \nu_e)$	$\mathbf{C}$
5pcstaue	$\frac{4G_F}{\sqrt{2}}(\bar{c}P_Ls)(\bar{\tau}\nu_e)$	$\mathbf{C}$
7pcstaue	$\frac{4G_F}{\sqrt{2}}(\bar{c}P_L\sigma^{\mu\nu}s)(\bar{\tau}\sigma_{\mu\nu}\nu_e)$	$\mathbf{C}$
1cstaumu	$\frac{4 \tilde{G}_F}{\sqrt{2}} (\bar{c} P_R \gamma^\mu s) (\bar{\tau} \gamma_\mu \nu_\mu)$	$^{\mathrm{C}}$
5cstaumu	$\frac{4 \tilde{G}_F}{\sqrt{2}} (\bar{c} P_R s) (\bar{\tau} \nu_\mu)$	$\mathbf{C}$
1pcstaumu	$rac{4 ar{G}_F}{\sqrt{2}} (ar{c} P_L \gamma^\mu s) (ar{ au} \gamma_\mu  u_\mu)$	$\mathbf{C}$
5pcstaumu	$\frac{4\tilde{G}_F}{\sqrt{2}}(\bar{c}P_Ls)(\bar{\tau}\nu_{\mu})$	$\mathbf{C}$
7pcstaumu	$\frac{4 \tilde{G}_F}{\sqrt{2}} (\bar{c} P_L \sigma^{\mu\nu} s) (\bar{\tau} \sigma_{\mu\nu} \nu_{\mu})$	$^{\mathrm{C}}$
1cstautau	$\frac{4 \tilde{G}_F}{\sqrt{2}} (\bar{c} P_R \gamma^\mu s) (\bar{\tau} \gamma_\mu \nu_\tau)$	$^{\mathrm{C}}$
5cstautau	$\frac{4G_F}{\sqrt{2}}(\bar{c}P_Rs)(\bar{\tau}\nu_{\tau})$	$\mathbf{C}$
1pcstautau	$\frac{4\overleftarrow{G_F}}{\sqrt{2}}(\bar{c}P_L\gamma^{\mu}s)(\bar{\tau}\gamma_{\mu}\nu_{\tau})$	$^{\mathrm{C}}$
5pcstautau	$\frac{4 \stackrel{Y}{G_F}}{\sqrt{2}} (\bar{c} P_L s) (\bar{\tau} \nu_{\tau})$	$\mathbf{C}$
7pcstautau	$\frac{4\tilde{G}_F}{\sqrt{2}}(\bar{c}P_L\sigma^{\mu\nu}s)(\bar{\tau}\sigma_{\mu\nu}\nu_{\tau})$	C

#### sduc

WC name	Operator	Type
1dsuc	$\frac{4G_F}{\sqrt{2}}(\bar{d}P_R\gamma_\mu s)(\bar{u}\gamma^\mu c)$	C
2dsuc	$\frac{4\tilde{Q}_F^2}{\sqrt{2}}(\bar{d}P_R\gamma_\mu T^A s)(\bar{u}\gamma^\mu T^A c)$	$\mathbf{C}$
3dsuc	$\frac{4Q_F^2}{\sqrt{2}}(\bar{d}P_R\gamma_{\mu\nu\rho}s)(\bar{u}\gamma^{\mu\nu\rho}c)$	$\mathbf{C}$
4dsuc	$\frac{4\tilde{Q}_F}{\sqrt{2}}(\bar{d}P_R\gamma_{\mu\nu\rho}T^As)(\bar{u}\gamma^{\mu\nu\rho}T^Ac)$	$\mathbf{C}$
5dsuc	$\frac{4\tilde{Q}_F}{\sqrt{2}}(\bar{d}P_Rs)(\bar{u}c)$	$\mathbf{C}$
6dsuc	$\frac{4Q_F^2}{\sqrt{2}}(\bar{d}P_RT^As)(\bar{u}T^Ac)$	$^{\mathrm{C}}$
7dsuc	$\frac{4Q_F^2}{\sqrt{2}}(\bar{d}P_R\sigma^{\mu\nu}s)(\bar{u}\sigma_{\mu\nu}c)$	$\mathbf{C}$
8dsuc	$\frac{4Q_F^2}{\sqrt{2}}(\bar{d}P_R\sigma^{\mu\nu}T^As)(\bar{u}\sigma_{\mu\nu}T^Ac)$	$\mathbf{C}$
9dsuc	$\frac{4\tilde{Q}_F}{\sqrt{2}}(\bar{d}P_R\gamma_{\mu\nu\rho\sigma}s)(\bar{u}\gamma^{\mu\nu\rho\sigma}c)$	$\mathbf{C}$
10dsuc	$\frac{4\tilde{G}_F}{\sqrt{2}}(\bar{d}P_R\gamma_{\mu\nu\rho\sigma}T^As)(\bar{u}\gamma^{\mu\nu\rho\sigma}T^Ac)$	$\mathbf{C}$
1pdsuc	$\frac{4Q_F^2}{\sqrt{2}}(\bar{d}P_L\gamma_\mu s)(\bar{u}\gamma^\mu c)$	$\mathbf{C}$
2pdsuc	$\frac{4Q_F^2}{\sqrt{2}}(\bar{d}P_L\gamma_\mu T^A s)(\bar{u}\gamma^\mu T^A c)$	$\mathbf{C}$
3pdsuc	$\frac{4Q_F^2}{\sqrt{2}}(\bar{d}P_L\gamma_{\mu\nu\rho}s)(\bar{u}\gamma^{\mu\nu\rho}c)$	$\mathbf{C}$
4pdsuc	$\frac{4\dot{Q}_F^2}{\sqrt{2}}(\bar{d}P_L\gamma_{\mu\nu\rho}T^As)(\bar{u}\gamma^{\mu\nu\rho}T^Ac)$	$\mathbf{C}$
5pdsuc	$\frac{4\ddot{Q}_F^2}{\sqrt{2}}(\bar{d}P_Ls)(\bar{u}c)$	$\mathbf{C}$
6pdsuc	$\frac{4\ddot{Q}_F^2}{\sqrt{2}}(\bar{d}P_LT^As)(\bar{u}T^Ac)$	$\mathbf{C}$
7pdsuc	$\frac{4Q_F^2}{\sqrt{2}}(\bar{d}P_L\sigma^{\mu\nu}s)(\bar{u}\sigma_{\mu\nu}c)$	$\mathbf{C}$
8pdsuc	$\frac{4G_F^2}{\sqrt{2}}(\bar{d}P_L\sigma^{\mu\nu}T^As)(\bar{u}\sigma_{\mu\nu}T^Ac)$	$\mathbf{C}$

WC name	Operator	Type
9pdsuc	$\frac{4G_F}{\sqrt{2}}(\bar{d}P_L\gamma_{\mu\nu\rho\sigma}s)(\bar{u}\gamma^{\mu\nu\rho\sigma}c)$ $\frac{4G_F}{\sqrt{2}}(\bar{d}P_L\gamma_{\mu\nu\rho\sigma}T^As)(\bar{u}\gamma^{\mu\nu\rho\sigma}T^Ac)$	С
10pdsuc	$\frac{4G_F}{\sqrt{2}}(\bar{d}P_L\gamma_{\mu\nu\rho\sigma}T^As)(\bar{u}\gamma^{\mu\nu\rho\sigma}T^Ac)$	$\mathbf{C}$

## sdcu

WC name	Operator	Type
1dscu	$\frac{4G_F}{\sqrt{2}}(\bar{d}P_R\gamma_\mu s)(\bar{c}\gamma^\mu u)$	
2dscu	$\frac{4\overleftarrow{Q_F}}{\sqrt{2}}(\bar{d}P_R\gamma_\mu T^As)(\bar{c}\gamma^\mu T^Au)$	$\mathbf{C}$
3dscu	$\frac{4G_F}{\sqrt{2}}(\bar{d}P_R\gamma_{\mu\nu\rho}s)(\bar{c}\gamma^{\mu\nu\rho}u)$	$^{\mathrm{C}}$
4dscu	$\frac{4\overset{\checkmark}{Q_F}}{\sqrt{2}}(\bar{d}P_R\gamma_{\mu\nu\rho}T^As)(\bar{c}\gamma^{\mu\nu\rho}T^Au)$	$^{\mathrm{C}}$
5dscu	$\frac{4\breve{G}_F}{\sqrt{2}}(\bar{d}P_Rs)(\bar{c}u)$	$^{\mathrm{C}}$
6dscu	$\frac{4\breve{G}_F}{\sqrt{2}}(\bar{d}P_RT^As)(\bar{c}T^Au)$	$^{\mathrm{C}}$
7dscu	$\frac{4G_F}{\sqrt{2}}(\bar{d}P_R\sigma^{\mu\nu}s)(\bar{c}\sigma_{\mu\nu}u)$	$^{\mathrm{C}}$
8dscu	$\frac{4G_F}{\sqrt{2}}(\bar{d}P_R\sigma^{\mu\nu}T^As)(\bar{c}\sigma_{\mu\nu}T^Au)$	$^{\mathrm{C}}$
9dscu	$\frac{4\breve{G}_F}{\sqrt{2}}(\bar{d}P_R\gamma_{\mu\nu\rho\sigma}s)(\bar{c}\gamma^{\mu\nu\rho\sigma}u)$	$\mathbf{C}$
10dscu	$\frac{4\ddot{G}_F}{\sqrt{2}}(\bar{d}P_R\gamma_{\mu\nu\rho\sigma}T^As)(\bar{c}\gamma^{\mu\nu\rho\sigma}T^Au)$	$^{\mathrm{C}}$
1pdscu	$\frac{4 \check{G_F}}{\sqrt{2}} (\bar{d} P_L \gamma_\mu s) (\bar{c} \gamma^\mu u)$	$\mathbf{C}$
2pdscu	$\frac{4G_F}{\sqrt{2}}(\bar{d}P_L\gamma_\mu T^As)(\bar{c}\gamma^\mu T^Au)$	$\mathbf{C}$
3pdscu	$\frac{4\bar{G_F}}{\sqrt{2}}(\bar{d}P_L\gamma_{\mu\nu\rho}s)(\bar{c}\gamma^{\mu\nu\rho}u)$	$\mathbf{C}$
4pdscu	$\frac{4G_F}{\sqrt{2}}(\bar{d}P_L\gamma_{\mu\nu\rho}T^As)(\bar{c}\gamma^{\mu\nu\rho}T^Au)$	$\mathbf{C}$
5pdscu	$\frac{4\tilde{G}_F}{\sqrt{2}}(\bar{d}P_Ls)(\bar{c}u)$	$\mathbf{C}$
6pdscu	$\frac{4\tilde{G}_F}{\sqrt{2}}(\bar{d}P_LT^As)(\bar{c}T^Au)$	$\mathbf{C}$
7pdscu	$\frac{4G_F}{\sqrt{2}}(\bar{d}P_L\sigma^{\mu\nu}s)(\bar{c}\sigma_{\mu\nu}u)$	$\mathbf{C}$
8pdscu	$\frac{4G_F}{\sqrt{2}}(\bar{d}P_L\sigma^{\mu\nu}T^As)(\bar{c}\sigma_{\mu\nu}T^Au)$	$\mathbf{C}$
9pdscu	$\frac{4G_F}{\sqrt{2}}(\bar{d}P_L\gamma_{\mu\nu\rho\sigma}s)(\bar{c}\gamma^{\mu\nu\rho\sigma}u)$	$\mathbf{C}$
10pdscu	$\frac{4\tilde{Q}_F^2}{\sqrt{2}}(\bar{d}P_L\gamma_{\mu\nu\rho\sigma}T^As)(\bar{c}\gamma^{\mu\nu\rho\sigma}T^Au)$	$\mathbf{C}$

## sd

WC name	Operator	Type
7gammasd	$\frac{4G_F}{\sqrt{2}}\frac{e}{q^2}m_s(\bar{d}P_R\sigma_{\mu\nu}s)F^{\mu\nu}$	C
8gsd	$\frac{4G_F}{\sqrt{2}}\frac{\sigma_a}{q_d}m_s(\bar{d}P_R\sigma_{\mu\nu}T^As)G_A^{\mu\nu}$	$\mathbf{C}$
7pgammasd	$\frac{4G_F}{\sqrt{2}}\frac{g^2}{q^2}m_s(\bar{d}P_L\sigma_{\mu\nu}s)F^{\mu\nu}$	$\mathbf{C}$
8pgsd	$\frac{4G_F}{\sqrt{2}}\frac{\sigma_d}{g_d}m_s(\bar{d}P_L\sigma_{\mu\nu}T^As)G_A^{\mu\nu}$	$\mathbf{C}$
1dsuu	$ \frac{4G_F}{\sqrt{2}} \frac{e}{g_d^2} m_s (\bar{d}P_R \sigma_{\mu\nu} s) F^{\mu\nu}  \frac{4G_F}{\sqrt{2}} \frac{1}{g_d} m_s (\bar{d}P_R \sigma_{\mu\nu} T^A s) G_A^{\mu\nu}  \frac{4G_F}{\sqrt{2}} \frac{e}{g_d^2} m_s (\bar{d}P_L \sigma_{\mu\nu} s) F^{\mu\nu}  \frac{4G_F}{\sqrt{2}} \frac{1}{g_d} m_s (\bar{d}P_L \sigma_{\mu\nu} T^A s) G_A^{\mu\nu}  \frac{4G_F}{\sqrt{2}} (\bar{d}P_R \gamma_{\mu} s) (\bar{u} \gamma^{\mu} u) $	C

WC name	Operator	Type
2dsuu	$\frac{4G_F}{\sqrt{2}}(\bar{d}P_R\gamma_\mu T^A s)(\bar{u}\gamma^\mu T^A u)$	С
3dsuu	$\frac{4G_F}{G}(\bar{d}P_R\gamma_{\mu\nu\rho}s)(\bar{u}\gamma^{\mu\nu\rho}u)$	$\mathbf{C}$
4dsuu	$\frac{4G_F}{\sqrt{2}}(\bar{d}P_R\gamma_{\mu\nu\rho}T^As)(\bar{u}\gamma^{\mu\nu\rho}T^Au)$	$^{\mathrm{C}}$
5dsuu	$\frac{4G_F}{\sqrt{2}}(\bar{d}P_Rs)(\bar{u}u)$	$\mathbf{C}$
6dsuu	$\frac{4\tilde{Q}_F^C}{\sqrt{2}}(\bar{d}P_RT^As)(\bar{u}T^Au)$	$\mathbf{C}$
7dsuu	$\frac{4\tilde{G}_F}{\sqrt{2}}(\bar{d}P_R\sigma^{\mu\nu}s)(\bar{u}\sigma_{\mu\nu}u)$	$\mathbf{C}$
8dsuu	$\frac{\frac{4G_F^2}{\sqrt{2}}(\bar{d}P_R\sigma^{\mu\nu}T^As)(\bar{u}\sigma_{\mu\nu}T^Au)}{\frac{4G_F}{\sqrt{2}}(\bar{d}P_R\gamma_{\mu\nu\rho\sigma}s)(\bar{u}\gamma^{\mu\nu\rho\sigma}u)}$	$\mathbf{C}$
9dsuu	$\frac{4\tilde{Q}_F}{\sqrt{2}}(\bar{d}P_R\gamma_{\mu\nu\rho\sigma}s)(\bar{u}\gamma^{\mu\nu\rho\sigma}u)$	$\mathbf{C}$
10dsuu	$\frac{4\tilde{Q}_F}{\sqrt{2}}(\bar{d}P_R\gamma_{\mu\nu\rho\sigma}T^As)(\bar{u}\gamma^{\mu\nu\rho\sigma}T^Au)$	$\mathbf{C}$
1pdsuu	$\frac{4\tilde{G}_F}{\sqrt{2}}(\bar{d}P_L\gamma_\mu s)(\bar{u}\gamma^\mu u)$	$\mathbf{C}$
2pdsuu	$\frac{4\tilde{G}_{F}}{\sqrt{2}}(\bar{d}P_{L}\gamma_{\mu}T^{A}s)(\bar{u}\gamma^{\mu}T^{A}u)$	$\mathbf{C}$
3pdsuu	$\frac{\frac{4G_F^2}{\sqrt{2}}(\bar{d}P_L\gamma_{\mu\nu\rho}s)(\bar{u}\gamma^{\mu\nu\rho}u)}{\frac{4G_F}{\sqrt{2}}(\bar{d}P_L\gamma_{\mu\nu\rho}T^As)(\bar{u}\gamma^{\mu\nu\rho}T^Au)}$	$^{\mathrm{C}}$
4pdsuu	$\frac{4\tilde{Q}_F}{\sqrt{2}}(\bar{d}P_L\gamma_{\mu\nu\rho}T^As)(\bar{u}\gamma^{\mu\nu\rho}T^Au)$	$\mathbf{C}$
5pdsuu	$\frac{4\ddot{G_F}}{\bar{G_F}}(\bar{d}P_Ts)(\bar{\eta}u)$	$\mathbf{C}$
6pdsuu	$rac{\sqrt{2}}{\sqrt{2}}(ar{d}P_LT^As)(ar{u}T^Au)$	$\mathbf{C}$
7pdsuu	$\frac{4G_F}{\sqrt{2}}(\bar{d}P_L\sigma^{\mu\nu}s)(\bar{u}\sigma_{\mu\nu}u)$	$\mathbf{C}$
8pdsuu	$\frac{\frac{4\tilde{G}_F}{\sqrt{2}}(\bar{d}P_L\sigma^{\mu\nu}T^As)(\bar{u}\sigma_{\mu\nu}T^Au)}{\frac{4G_F}{\sqrt{2}}(\bar{d}P_L\gamma_{\mu\nu\rho\sigma}s)(\bar{u}\gamma^{\mu\nu\rho\sigma}u)}$	$^{\mathrm{C}}$
9pdsuu	$\frac{4\tilde{G}_F}{\sqrt{2}}(\bar{d}P_L\gamma_{\mu\nu\rho\sigma}s)(\bar{u}\gamma^{\mu\nu\rho\sigma}u)$	$^{\mathrm{C}}$
10pdsuu	$\frac{4G_F}{dP_T}(\bar{d}P_T\gamma_{}T^As)(\bar{u}\gamma^{\mu\nu\rho\sigma}T^Au)$	$^{\mathrm{C}}$
1dscc	$\frac{4G_F}{\sqrt{2}}(\bar{d}P_R\gamma_\mu s)(\bar{c}\gamma^\mu c)$ $\frac{4G_F}{\sqrt{2}}(\bar{d}P_R\gamma_\mu s)(\bar{c}\gamma^\mu c)$	$^{\mathrm{C}}$
2dscc	$\frac{4G_F}{\sqrt{2}}(dP_R\gamma_\mu T^A s)(c\gamma^\mu T^A c)$	$^{\mathrm{C}}$
3dscc	$\frac{4G_F}{\sqrt{2}}(\bar{d}P_R\gamma_{\mu\nu\rho}s)(\bar{c}\gamma^{\mu\nu\rho}c)$	$\mathbf{C}$
4dscc	$\frac{4\overset{C^{\prime}}{Q_{F}}}{\sqrt{2}}(\bar{d}P_{R}\gamma_{\mu\nu\rho}T^{A}s)(\bar{c}\gamma^{\mu\nu\rho}T^{A}c)$	$^{\mathrm{C}}$
5dscc	$\frac{4G_F}{G_c}(\bar{d}P_Rs)(\bar{c}c)$	$^{\mathrm{C}}$
6dscc	$\frac{4G_F}{\sqrt{2}}(\bar{d}P_RT^As)(\bar{c}T^Ac)$	$^{\mathrm{C}}$
7dscc	$\frac{4 \overleftarrow{G_F}}{\sqrt{2}} (\bar{d} P_R \sigma^{\mu \nu} s) (\bar{c} \sigma_{\mu \nu} c)$	$\mathbf{C}$
8dscc	$\frac{\frac{4G_F^2}{\sqrt{2}}(\bar{d}P_R\sigma^{\mu\nu}T^As)(\bar{c}\sigma_{\mu\nu}T^Ac)}{\frac{4G_F}{\sqrt{2}}(\bar{d}P_R\gamma_{\mu\nu\rho\sigma}s)(\bar{c}\gamma^{\mu\nu\rho\sigma}c)}$	$\mathbf{C}$
9dscc	$\frac{4\tilde{G}_F}{\sqrt{2}}(\bar{d}P_R\gamma_{\mu\nu\rho\sigma}s)(\bar{c}\gamma^{\mu\nu\rho\sigma}c)$	$^{\mathrm{C}}$
10dscc	$4G_F(\bar{J}D) = TA \rightarrow (= \mu\nu\rho\sigma\tau DA \rightarrow)$	$^{\mathrm{C}}$
1pdscc	$\frac{4 \overleftarrow{G_F}}{\sqrt{2}} (\bar{d} P_L \gamma_\mu s) (\bar{c} \gamma^\mu c)$	$\mathbf{C}$
2pdscc	$\frac{4\overline{G_F}}{\sqrt{2}}(\bar{d}P_L\gamma_\mu T^As)(\bar{c}\gamma^\mu T^Ac)$	$\mathbf{C}$
3pdscc	$\frac{4\ddot{G_F}}{\sqrt{2}}(\bar{d}P_L\gamma_{\mu\nu\rho}s)(\bar{c}\gamma^{\mu\nu\rho}c)$	$^{\mathrm{C}}$
4pdscc	$\frac{4\check{G}_F}{\sqrt{2}}(\bar{d}P_L\gamma_{\mu\nu\rho}T^As)(\bar{c}\gamma^{\mu\nu\rho}T^Ac)$	$\mathbf{C}$
5pdscc	$\frac{4\check{G}_F^c}{\sqrt{2}}(\bar{d}P_Ls)(\bar{c}c)$	$\mathbf{C}$
6pdscc	$\frac{4\check{G}_F}{\sqrt{2}}(\bar{d}P_LT^As)(\bar{c}T^Ac)$	$\mathbf{C}$
7pdscc	$ \frac{\frac{1}{\sqrt{2}}(dP_R\gamma_{\mu\nu\rho\sigma}T^As)(c\gamma^{\mu\nu}\Gamma^Ac)}{\frac{4G_F}{\sqrt{2}}(\bar{d}P_L\gamma_{\mu}s)(\bar{c}\gamma^{\mu}c)} \\ \frac{\frac{4G_F}{\sqrt{2}}(\bar{d}P_L\gamma_{\mu}T^As)(\bar{c}\gamma^{\mu}T^Ac)}{\frac{4G_F}{\sqrt{2}}(\bar{d}P_L\gamma_{\mu\nu\rho}s)(\bar{c}\gamma^{\mu\nu\rho}c)} \\ \frac{\frac{4G_F}{\sqrt{2}}(\bar{d}P_L\gamma_{\mu\nu\rho}T^As)(\bar{c}\gamma^{\mu\nu\rho}T^Ac)}{\frac{4G_F}{\sqrt{2}}(\bar{d}P_Ls)(\bar{c}c)} \\ \frac{\frac{4G_F}{\sqrt{2}}(\bar{d}P_Ls)(\bar{c}c)}{\frac{4G_F}{\sqrt{2}}(\bar{d}P_LT^As)(\bar{c}T^Ac)} \\ \frac{\frac{4G_F}{\sqrt{2}}(\bar{d}P_L\sigma^{\mu\nu}s)(\bar{c}\sigma_{\mu\nu}c)}{\frac{4G_F}{\sqrt{2}}(\bar{d}P_L\sigma^{\mu\nu}T^As)(\bar{c}\sigma_{\mu\nu}T^Ac)} $	$\mathbf{C}$
8pdscc	$\frac{4\overleftarrow{G_F}}{\overleftarrow{G}}(\bar{d}P_L\sigma^{\mu\nu}T^As)(\bar{c}\sigma_{\mu\nu}T^Ac)$	$^{\mathrm{C}}$

WC name	Operator	Type
9pdscc	$\frac{4G_F}{\sqrt{2}}(\bar{d}P_L\gamma_{\mu\nu\rho\sigma}s)(\bar{c}\gamma^{\mu\nu\rho\sigma}c)$	C
10pdscc	$\frac{\frac{4G_F}{\sqrt{2}}(\bar{d}P_L\gamma_{\mu\nu\rho\sigma}s)(\bar{c}\gamma^{\mu\nu\rho\sigma}c)}{\frac{4G_F}{\sqrt{2}}(\bar{d}P_L\gamma_{\mu\nu\rho\sigma}T^As)(\bar{c}\gamma^{\mu\nu\rho\sigma}T^Ac)}$	$\mathbf{C}$
1dsss	$rac{4Q_F^2}{\sqrt{2}}(ar{d}P_R\gamma_\mu s)(ar{s}\gamma^\mu s)$	$\mathbf{C}$
3dsss	$rac{4reve{Q_F}}{\sqrt{2}}(ar{d}P_R\gamma_{\mu u ho}s)(ar{s}\gamma^{\mu u ho}s)$	$^{\mathrm{C}}$
5dsss	$rac{4rac{Q}_F}{\sqrt{2}}(ar{d}P_Rs)(ar{s}s)$	$^{\mathrm{C}}$
7dsss	$\frac{4G_F}{\bar{c}}(\bar{d}P_B\sigma^{\mu\nu}s)(\bar{s}\sigma_{\mu\nu}s)$	$\mathbf{C}$
9dsss	$\frac{4G_F}{\sqrt{2}}(dP_R\gamma_{\mu\nu\rho\sigma}s)(\bar{s}\gamma^{\mu\nu\rho\sigma}s)$	$\mathbf{C}$
1pdsss	$rac{4Q_F^2}{\sqrt{2}}(ar{d}P_L\gamma_\mu s)(ar{s}\gamma^\mu s)$	$^{\mathrm{C}}$
3pdsss	$\frac{4\tilde{G}_F}{\sqrt{2}}(\bar{d}P_L\gamma_{\mu\nu\rho}s)(\bar{s}\gamma^{\mu\nu\rho}s)$	$\mathbf{C}$
5pdsss	$\frac{4\tilde{G}_F}{\sqrt{2}}(\bar{d}P_Ls)(\bar{s}s)$	$\mathbf{C}$
7pdsss	$rac{4reve{G_F}}{\sqrt{2}}(ar{d}P_L\sigma^{\mu u}s)(ar{s}\sigma_{\mu u}s)$	$\mathbf{C}$
9pdsss	$\begin{array}{c} \sqrt{2} \left( d r_L \sigma - b \right) \left( \delta \sigma \mu \nu \delta \right) \\ \frac{4G_F}{\sqrt{2}} \left( \bar{d} P_L \gamma_{\mu\nu\rho\sigma} s \right) \left( \bar{s} \gamma^{\mu\nu\rho\sigma} s \right) \\ \frac{4G_F}{\sqrt{2}} \left( \bar{d} \gamma_{\mu} P_L s \right) \left( \bar{d} \gamma^{\mu} d \right) \\ \frac{4G_F}{\sqrt{2}} \left( \bar{d} \gamma_{\mu} P_R s \right) \left( \bar{d} \gamma^{\mu} d \right) \\ \frac{4G_F}{\sqrt{2}} \left( \bar{d} \gamma_{\mu\nu\rho} P_L s \right) \left( \bar{d} \gamma^{\mu\nu\rho} d \right) \\ \frac{4G_F}{\sqrt{2}} \left( \bar{d} \gamma_{\mu\nu\rho} P_L s \right) \left( \bar{d} \gamma^{\mu\nu\rho} d \right) \end{array}$	$\mathbf{C}$
1dsdd	$\frac{4\check{G}_F}{\sqrt{2}}(\bar{d}\gamma_\mu P_L s)(\bar{d}\gamma^\mu d)$	$\mathbf{C}$
1pdsdd	$\frac{4\tilde{G}_F}{\sqrt{2}}(\bar{d}\gamma_\mu P_R s)(\bar{d}\gamma^\mu d)$	$\mathbf{C}$
3dsdd	$\frac{4\tilde{G}_F}{\sqrt{2}}(\bar{d}\gamma_{\mu u ho}P_Ls)(\bar{d}\gamma^{\mu u ho}d)$	$^{\mathrm{C}}$
3pdsdd	$\frac{4GF}{\sqrt{2}}(d\gamma_{\mu\nu\rho}P_Rs)(d\gamma^{\mu\nu\rho}d)$	$\mathbf{C}$
5dsdd	$rac{4 \overleftarrow{G_F}}{\sqrt{2}} (ar{d} P_L s) (ar{d} d)$	$\mathbf{C}$
5pdsdd	$\frac{4\tilde{G}_F}{\sqrt{2}}(\bar{d}P_Rs)(\bar{d}d)$	$\mathbf{C}$
7dsdd	$\frac{4G_F}{\sqrt{2}}(\bar{d}\sigma^{\mu\nu}P_Ls)(\bar{d}\sigma_{\mu\nu}d)$	$\mathbf{C}$
7pdsdd	$\frac{\frac{4G_F}{\sqrt{2}}(\bar{d}\sigma^{\mu\nu}P_Rs)(\bar{d}\sigma_{\mu\nu}d)}{\frac{4G_F}{\sqrt{2}}(\bar{d}\gamma_{\mu\nu\rho\sigma}P_Ls)(\bar{d}\gamma^{\mu\nu\rho\sigma}d)}$ $\frac{\frac{4G_F}{\sqrt{2}}(\bar{d}\gamma_{\mu\nu\rho\sigma}P_Rs)(\bar{d}\gamma^{\mu\nu\rho\sigma}d)}{\frac{4G_F}{\sqrt{2}}(\bar{d}\gamma_{\mu\nu\rho\sigma}P_Rs)(\bar{d}\gamma^{\mu\nu\rho\sigma}d)}$	$\mathbf{C}$
9dsdd	$\frac{4\ddot{G}_F}{\sqrt{2}}(\bar{d}\gamma_{\mu\nu\rho\sigma}P_Ls)(\bar{d}\gamma^{\mu\nu\rho\sigma}d)$	$\mathbf{C}$
9pdsdd	$\frac{4G_F}{\sqrt{2}}(\bar{d}\gamma_{\mu\nu\rho\sigma}P_Rs)(\bar{d}\gamma^{\mu\nu\rho\sigma}d)$	$\mathbf{C}$
1dsbb	$\frac{4G_F}{\sqrt{2}}(dP_R\gamma_\mu s)(b\gamma^\mu b)$	$\mathbf{C}$
2dsbb	$\frac{4G_F}{\sqrt{2}}(\bar{d}P_R\gamma_\mu T^A s)(\bar{b}\gamma^\mu T^A b)$	$\mathbf{C}$
3dsbb	$\frac{4G_F}{\sqrt{2}}(\bar{d}P_R\gamma_{\mu\nu\rho}s)(\bar{b}\gamma^{\mu\nu\rho}b)$	$\mathbf{C}$
4dsbb	$\frac{4\overleftarrow{Q_F}}{\sqrt{2}}(\bar{d}P_R\gamma_{\mu\nu\rho}T^As)(\bar{b}\gamma^{\mu\nu\rho}T^Ab)$	$\mathbf{C}$
5dsbb	$rac{4 \overline{G_F}}{\sqrt{2}} (ar{d} P_R s) (ar{b} b)$	$\mathbf{C}$
6dsbb	$\frac{4G_F}{\sqrt{2}}(\bar{d}P_RT^As)(\bar{b}T^Ab)$	$\mathbf{C}$
7dsbb	$rac{4raket{G_F}}{\sqrt{2}}(ar{d}P_R\sigma^{\mu u}s)(ar{b}\sigma_{\mu u}b)$	$\mathbf{C}$
8dsbb	$\frac{4G_F}{\sqrt{2}}(\bar{d}P_R\sigma^{\mu\nu}T^As)(\bar{b}\sigma_{\mu\nu}T^Ab)$	$\mathbf{C}$
9dsbb	$\frac{4G_F}{\sqrt{2}}(\bar{d}P_R\gamma_{\mu\nu\rho\sigma}s)(\bar{b}\gamma^{\mu\nu\rho\sigma}b)$	$\mathbf{C}$
10dsbb	$\frac{4\ddot{G_F}}{\sqrt{2}}(\bar{d}P_R\gamma_{\mu\nu\rho\sigma}T^As)(\bar{b}\gamma^{\mu\nu\rho\sigma}T^Ab)$	$\mathbf{C}$
1pdsbb	$rac{4reve{G_F}}{\sqrt{2}}(ar{d}P_L\gamma_\mu s)(ar{b}\gamma^\mu b)$	$^{\mathrm{C}}$
2pdsbb	$\frac{4\check{G}_F^{\sigma}}{\sqrt{2}}(ar{d}P_L\gamma_{\mu}T^As)(ar{b}\gamma^{\mu}T^Ab)$	$\mathbf{C}$
3pdsbb	$rac{4\check{G_F}}{\sqrt{2}}(ar{d}P_L\gamma_{\mu u ho}s)(ar{b}\gamma^{\mu u ho}b)$	$^{\mathrm{C}}$
4pdsbb	$ \frac{\sqrt{2}}{\sqrt{2}}(dP_R\sigma^{\mu\nu}S)(b\sigma_{\mu\nu}b) $ $ \frac{4G_F}{\sqrt{2}}(\bar{d}P_R\sigma^{\mu\nu}T^As)(\bar{b}\sigma_{\mu\nu}T^Ab) $ $ \frac{4G_F}{\sqrt{2}}(\bar{d}P_R\gamma_{\mu\nu\rho\sigma}s)(\bar{b}\gamma^{\mu\nu\rho\sigma}b) $ $ \frac{4G_F}{\sqrt{2}}(\bar{d}P_R\gamma_{\mu\nu\rho\sigma}T^As)(\bar{b}\gamma^{\mu\nu\rho\sigma}T^Ab) $ $ \frac{4G_F}{\sqrt{2}}(\bar{d}P_L\gamma_{\mu}s)(\bar{b}\gamma^{\mu}b) $ $ \frac{4G_F}{\sqrt{2}}(\bar{d}P_L\gamma_{\mu}T^As)(\bar{b}\gamma^{\mu}T^Ab) $ $ \frac{4G_F}{\sqrt{2}}(\bar{d}P_L\gamma_{\mu\nu\rho}s)(\bar{b}\gamma^{\mu\nu\rho}b) $ $ \frac{4G_F}{\sqrt{2}}(\bar{d}P_L\gamma_{\mu\nu\rho}T^As)(\bar{b}\gamma^{\mu\nu\rho}T^Ab) $ $ \frac{4G_F}{\sqrt{2}}(\bar{d}P_L\gamma_{\mu\nu\rho}T^As)(\bar{b}\gamma^{\mu\nu\rho}T^Ab) $ $ \frac{4G_F}{\sqrt{2}}(\bar{d}P_Ls)(\bar{b}b) $	$^{\mathrm{C}}$
5pdsbb	$\frac{4\overset{Q}{G_F}}{\sqrt{2}}(\bar{d}P_Ls)(\bar{b}b)$	$^{\mathrm{C}}$

WC name	Operator	Type
6pdsbb	$\frac{4G_F}{\sqrt{2}}(\bar{d}P_LT^As)(\bar{b}T^Ab)$	C
7pdsbb	$\frac{4\tilde{G}_F}{\sqrt{2}}(\bar{d}P_L\sigma^{\mu\nu}s)(\bar{b}\sigma_{\mu\nu}b)$	$^{\mathrm{C}}$
8pdsbb	$\frac{4\tilde{G}_F}{\sqrt{2}}(\bar{d}P_L\sigma^{\mu\nu}T^As)(\bar{b}\sigma_{\mu\nu}T^Ab)$	$^{\mathrm{C}}$
9pdsbb	$\frac{4\ddot{G}_{F}}{\sqrt{2}}(\bar{d}P_{L}\gamma_{\mu\nu\rho\sigma}s)(\bar{b}\gamma^{\mu\nu\rho\sigma}b)$	$^{\mathrm{C}}$
10pdsbb	$ \frac{\frac{4G_F}{\sqrt{2}}(\bar{d}P_L\sigma^{\mu\nu}T^As)(\bar{b}\sigma_{\mu\nu}T^Ab)}{\frac{4G_F}{\sqrt{2}}(\bar{d}P_L\gamma_{\mu\nu\rho\sigma}s)(\bar{b}\gamma^{\mu\nu\rho\sigma}b)} \\ \frac{4G_F}{\sqrt{2}}(\bar{d}P_L\gamma_{\mu\nu\rho\sigma}T^As)(\bar{b}\gamma^{\mu\nu\rho\sigma}T^Ab) $	$^{\mathrm{C}}$
1dsee	$\frac{4G_F}{\sqrt{2}}(\bar{d}P_R\gamma_\mu s)(\bar{e}\gamma^\mu e)$	$\mathbf{C}$
1pdsee	$\frac{4\tilde{G}_F}{\sqrt{2}}(\bar{d}P_L\gamma_\mu s)(\bar{e}\gamma^\mu e)$	$^{\mathrm{C}}$
3dsee	$\frac{\frac{4G_F}{\sqrt{2}}(\bar{d}P_L\gamma_{\mu}s)(\bar{e}\gamma^{\mu}e)}{\frac{4G_F}{\sqrt{2}}(\bar{d}P_R\gamma_{\mu\nu\rho}s)(\bar{e}\gamma^{\mu\nu\rho}e)}$	$\mathbf{C}$
3pdsee	$rac{4Q_F^2}{\sqrt{2}}(ar{d}P_L\gamma_{\mu u ho}s)(ar{e}\gamma^{\mu u ho}e)$	$\mathbf{C}$
5dsee	$\frac{4 \tilde{G}_F}{\sqrt{2}} (\bar{d} P_R s) (\bar{e} e)$	$\mathbf{C}$
5pdsee	$\frac{4\ddot{G}_F}{\sqrt{2}}(\bar{d}P_L s)(\bar{e}e)$	$\mathbf{C}$
7dsee	$\frac{4\tilde{G}_F}{\sqrt{2}}(\bar{d}P_R\sigma^{\mu\nu}s)(\bar{e}\sigma_{\mu\nu}e)$	$^{\mathrm{C}}$
7pdsee	$rac{4 \check{G}_F^2}{\sqrt{2}} (ar{d} P_L \sigma^{\mu  u} s) (ar{e} \sigma_{\mu  u} e)$	$\mathbf{C}$
9dsee	$\frac{4\ddot{G}_F}{\sqrt{2}}(\bar{d}P_R\gamma_{\mu\nu\rho\sigma}s)(\bar{e}\gamma^{\mu\nu\rho\sigma}e)$	$\mathbf{C}$
9pdsee	$\frac{4G_F}{\sqrt{2}}(\bar{d}P_L\gamma_{\mu\nu\rho\sigma}s)(\bar{e}\gamma^{\mu\nu\rho\sigma}e)$	$\mathbf{C}$
1dsmumu	$\frac{4 \stackrel{Q}{G_F}}{\sqrt{2}} (\bar{d} P_R \gamma_\mu s) (\bar{\mu} \gamma^\mu \mu)$	$\mathbf{C}$
1pdsmumu	$\frac{4\widetilde{G}_F}{\sqrt{2}}(ar{d}P_L\gamma_\mu s)(ar{\mu}\gamma^\mu\mu)$	$\mathbf{C}$
3dsmumu	$rac{4G_F}{\sqrt{2}}(ar{d}P_R\gamma_{\mu u ho}s)(ar{\mu}\gamma^{\mu u ho}\mu)$	$\mathbf{C}$
3pdsmumu	$rac{4 \check{G_F}}{\sqrt{2}} (ar{d} P_L \gamma_{\mu u ho} s) (ar{\mu} \gamma^{\mu u ho} \mu)$	$\mathbf{C}$
5dsmumu	$\frac{4\overset{\leftarrow}{V_F}}{\overset{\sim}{V_F}}(\bar{d}P_Rs)(\bar{\mu}\mu)$	$\mathbf{C}$
5pdsmumu	$\frac{4\widetilde{G}_F}{\sqrt{2}}(\bar{d}P_L s)(\bar{\mu}\mu)$	$\mathbf{C}$
7dsmumu	$\frac{4 \tilde{G}_F}{\sqrt{2}} (\bar{d} P_R \sigma^{\mu \nu} s) (\bar{\mu} \sigma_{\mu \nu} \mu)$	$\mathbf{C}$
7pdsmumu	$\frac{4\tilde{\zeta}_{F}}{\sqrt{2}}(\bar{d}P_{L}\sigma^{\mu\nu}s)(\bar{\mu}\sigma_{\mu\nu}\mu)$	$\mathbf{C}$
9dsmumu	$\frac{4\ddot{G}_F}{\sqrt{2}}(\bar{d}P_R\gamma_{\mu\nu\rho\sigma}s)(\bar{\mu}\gamma^{\mu\nu\rho\sigma}\mu)$	$\mathbf{C}$
9pdsmumu	$\frac{4 \tilde{G}_F}{\sqrt{2}} (\bar{d} P_L \gamma_{\mu\nu\rho\sigma} s) (\bar{\mu} \gamma^{\mu\nu\rho\sigma} \mu)$	$\mathbf{C}$
1dstautau	$\frac{4G_F}{\sqrt{2}}(\bar{d}P_R\gamma_\mu s)(\bar{\tau}\gamma^\mu  au)$	$\mathbf{C}$
1pdstautau	$rac{4reve{G_F}}{\sqrt{2}}(ar{d}P_L\gamma_\mu s)(ar{ au}\gamma^\mu au)$	$\mathbf{C}$
3dstautau	$rac{4G_F}{4\overline{G}_F}(ar{d}P_R\gamma_{\mu u ho}s)(ar{ au}\gamma^{\mu u ho} au)$	$\mathbf{C}$
3pdstautau	$\frac{4\ddot{G}_F}{\sqrt{2}}(\bar{d}P_L\gamma_{\mu\nu\rho}s)(\bar{\tau}\gamma^{\mu\nu\rho}\tau)$	$\mathbf{C}$
5dstautau	$rac{4reve{G_F}}{\sqrt{2}}(ar{d}P_Rs)(ar{ au} au)$	$\mathbf{C}$
5pdstautau	$rac{4 ar{G}_F}{\sqrt{2}} (ar{d} P_L s) (ar{ au}  au)$	$\mathbf{C}$
7dstautau	$\frac{4 \tilde{G}_F}{\sqrt{2}} (\bar{d} P_R \sigma^{\mu  u} s) (\bar{\tau} \sigma_{\mu  u}  au)$	$\mathbf{C}$
7pdstautau	$\frac{4\ddot{G}_{F}}{\sqrt{2}}(ar{d}P_{L}\sigma^{\mu u}s)(ar{ au}\sigma_{\mu u} au)$	$\mathbf{C}$
9dstautau	$\frac{4G_F^2}{\sqrt{2}}(\bar{d}P_R\gamma_{\mu u ho\sigma}s)(\bar{ au}\gamma^{\mu u ho\sigma} au)$	$\mathbf{C}$
9pdstautau	$ \frac{\frac{4G_F}{\sqrt{2}}(dP_Rs)(\tau\tau)}{\frac{4G_F}{\sqrt{2}}(\bar{d}P_Ls)(\bar{\tau}\tau)} \\ \frac{\frac{4G_F}{\sqrt{2}}(\bar{d}P_R\sigma^{\mu\nu}s)(\bar{\tau}\sigma_{\mu\nu}\tau)}{\frac{4G_F}{\sqrt{2}}(\bar{d}P_L\sigma^{\mu\nu}s)(\bar{\tau}\sigma_{\mu\nu}\tau)} \\ \frac{\frac{4G_F}{\sqrt{2}}(\bar{d}P_R\gamma_{\mu\nu\rho\sigma}s)(\bar{\tau}\gamma^{\mu\nu\rho\sigma}\tau)}{\frac{4G_F}{\sqrt{2}}(\bar{d}P_L\gamma_{\mu\nu\rho\sigma}s)(\bar{\tau}\gamma^{\mu\nu\rho\sigma}\tau)} $	$\mathbf{C}$

#### sdemu

WC name	Operator	Type
1dsemu	$\frac{4G_F}{\sqrt{2}}(\bar{d}P_R\gamma_\mu s)(\bar{e}\gamma^\mu\mu)$	C
1pdsemu	$\frac{\frac{4G_F}{\sqrt{2}}(\bar{d}P_R\gamma_\mu s)(\bar{e}\gamma^\mu\mu)}{\frac{4G_F}{\sqrt{2}}(\bar{d}P_L\gamma_\mu s)(\bar{e}\gamma^\mu\mu)}$	$\mathbf{C}$
3dsemu	$\frac{4G_F}{\sqrt{c}}(\bar{d}P_R\gamma_{\mu\nu\rho}s)(\bar{e}\gamma^{\mu\nu\rho}\mu)$	$\mathbf{C}$
3pdsemu	$rac{4G_F}{\sqrt{2}}(ar{d}P_L\gamma_{\mu u ho}s)(ar{e}\gamma^{\mu u ho}\mu)$	$\mathbf{C}$
5dsemu	$\frac{4\check{G}_F}{\sqrt{2}}(\bar{d}P_Rs)(\bar{e}\mu)$	$\mathbf{C}$
5pdsemu	$\frac{4\check{G}_F}{\sqrt{2}}(\bar{d}P_Ls)(\bar{e}\mu)$	$\mathbf{C}$
7dsemu	$\frac{4\widetilde{G}_F}{\sqrt{2}}(\bar{d}P_R\sigma^{\mu\nu}s)(\bar{e}\sigma_{\mu\nu}\mu)$	$\mathbf{C}$
7pdsemu	$\frac{4G_F}{G}(\bar{d}P_L\sigma^{\mu\nu}s)(\bar{e}\sigma_{\mu\nu}\mu)$	$\mathbf{C}$
9dsemu	$\frac{4\check{G}_{F}}{\sqrt{2}}(\bar{d}P_{R}\gamma_{\mu\nu\rho\sigma}s)(\bar{e}\gamma^{\mu\nu\rho\sigma}\mu)$	$\mathbf{C}$
9pdsemu	$\frac{\frac{4G_F}{\sqrt{2}}(\bar{d}P_R\gamma_{\mu\nu\rho\sigma}s)(\bar{e}\gamma^{\mu\nu\rho\sigma}\mu)}{\frac{4G_F}{\sqrt{2}}(\bar{d}P_L\gamma_{\mu\nu\rho\sigma}s)(\bar{e}\gamma^{\mu\nu\rho\sigma}\mu)}$	С

## sdetau

WC name	Operator	Type
1dsetau	$\frac{4G_F}{\sqrt{2}}(\bar{d}P_R\gamma_\mu s)(\bar{e}\gamma^\mu\tau)$	C
1pdsetau	$rac{4G_F}{\sqrt{2}}(ar{d}P_R\gamma_\mu s)(ar{e}\gamma^\mu au) \ rac{4G_F}{\sqrt{2}}(ar{d}P_L\gamma_\mu s)(ar{e}\gamma^\mu au)$	$^{\mathrm{C}}$
3dsetau	$\frac{4G_F}{\sqrt{2}}(\bar{d}P_R\gamma_{\mu\nu\rho}s)(\bar{e}\gamma^{\mu\nu\rho}\tau)$	$^{\mathrm{C}}$
3pdsetau	$rac{4G_F}{\sqrt{2}}(ar{d}P_L\gamma_{\mu u ho}s)(ar{e}\gamma^{\mu u ho} au)$	$\mathbf{C}$
5dsetau	$\frac{4G_F}{\sqrt{a}}(\bar{d}P_Rs)(\bar{e} au)$	$^{\mathrm{C}}$
5pdsetau	$rac{4G_F}{\sqrt{2}}(ar{d}P_Ls)(ar{e} au)$	$^{\mathrm{C}}$
7dsetau	$\frac{4G_F}{G}(dP_B\sigma^{\mu\nu}s)(\bar{e}\sigma_{\mu\nu}\tau)$	$^{\mathrm{C}}$
7pdsetau	$\frac{4G_F}{\sqrt{2}}(\bar{d}P_L\sigma^{\mu\nu}s)(\bar{e}\sigma_{\mu\nu}\tau)$	$^{\mathrm{C}}$
9dsetau	$\frac{4\check{G}_F}{\sqrt{2}}(\bar{d}P_R\gamma_{\mu\nu\rho\sigma}s)(\bar{e}\gamma^{\mu\nu\rho\sigma}\tau)$	$^{\mathrm{C}}$
9pdsetau	$\frac{4\tilde{G}_F}{\sqrt{2}}(\bar{d}P_R\gamma_{\mu\nu\rho\sigma}s)(\bar{e}\gamma^{\mu\nu\rho\sigma}\tau)$ $\frac{4G_F}{\sqrt{2}}(\bar{d}P_L\gamma_{\mu\nu\rho\sigma}s)(\bar{e}\gamma^{\mu\nu\rho\sigma}\tau)$	C

## sdmue

WC name	Operator	Type
1dsmue	$\frac{4G_F}{\sqrt{2}}(\bar{d}P_R\gamma_\mu s)(\bar{\mu}\gamma^\mu e)$	С
1pdsmue	$\frac{\frac{4G_F}{\sqrt{2}}(\bar{d}P_R\gamma_\mu s)(\bar{\mu}\gamma^\mu e)}{\frac{4G_F}{\sqrt{2}}(\bar{d}P_L\gamma_\mu s)(\bar{\mu}\gamma^\mu e)}$	$\mathbf{C}$
3dsmue	$\frac{4G_F}{\sqrt{2}}(\bar{d}P_R\gamma_{\mu\nu\rho}s)(\bar{\mu}\gamma^{\mu\nu\rho}e)$	$\mathbf{C}$
3pdsmue	$\frac{4G_F}{\sqrt{2}}(\bar{d}P_L\gamma_{\mu\nu\rho}s)(\bar{\mu}\gamma^{\mu\nu\rho}e)$	$\mathbf{C}$
5dsmue	$\frac{\frac{4G_F}{\sqrt{2}}(\bar{d}P_R\gamma_{\mu\nu\rho}s)(\bar{\mu}\gamma^{\mu\nu\rho}e)}{\frac{4G_F}{\sqrt{2}}(\bar{d}P_L\gamma_{\mu\nu\rho}s)(\bar{\mu}\gamma^{\mu\nu\rho}e)}$ $\frac{\frac{4G_F}{\sqrt{2}}(\bar{d}P_Rs)(\bar{\mu}e)}{\frac{4G_F}{\sqrt{2}}(\bar{d}P_Rs)(\bar{\mu}e)}$	$\mathbf{C}$

WC name	Operator	Type
5pdsmue	$\frac{4G_F}{\sqrt{2}}(\bar{d}P_L s)(\bar{\mu}e)$	C
7dsmue	$\frac{\frac{4G_F}{\sqrt{2}}(\bar{d}P_R\sigma^{\mu\nu}s)(\bar{\mu}\sigma_{\mu\nu}e)}{\frac{4G_F}{\sqrt{2}}(\bar{d}P_L\sigma^{\mu\nu}s)(\bar{\mu}\sigma_{\mu\nu}e)}$	$\mathbf{C}$
7pdsmue	$\frac{4G_F}{\sqrt{2}}(\bar{d}P_L\sigma^{\mu\nu}s)(\bar{\mu}\sigma_{\mu\nu}e)$	$\mathbf{C}$
9dsmue	$\frac{{}^{4}\!G_{F}}{\sqrt{2}}(\bar{d}P_{R}\gamma_{\mu\nu\rho\sigma}s)(\bar{\mu}\gamma^{\mu\nu\rho\sigma}e)$ $\frac{{}^{4}\!G_{F}}{\sqrt{2}}(\bar{d}P_{L}\gamma_{\mu\nu\rho\sigma}s)(\bar{\mu}\gamma^{\mu\nu\rho\sigma}e)$	$\mathbf{C}$
9pdsmue	$\frac{4\bar{G}_F}{\sqrt{2}}(\bar{d}P_L\gamma_{\mu\nu\rho\sigma}s)(\bar{\mu}\gamma^{\mu\nu\rho\sigma}e)$	С

## ${\tt sdmutau}$

WC name	Operator	Type
1dsmutau	$rac{4G_F}{\sqrt{2}}(ar{d}P_R\gamma_\mu s)(ar{\mu}\gamma^\mu au)$	С
1pdsmutau	$\frac{4\check{G_F}}{\sqrt{2}}(\bar{d}P_L\gamma_\mu s)(\bar{\mu}\gamma^\mu  au)$	$\mathbf{C}$
3dsmutau	$\frac{4G_F}{\sqrt{2}}(\bar{d}P_R\gamma_{\mu\nu\rho}s)(\bar{\mu}\gamma^{\mu\nu\rho}\tau)$	$\mathbf{C}$
3pdsmutau	$\frac{\sqrt{2}}{\sqrt{2}} (\bar{d}P_L \gamma_{\mu\nu\rho} s) (\bar{\mu}\gamma^{\mu\nu\rho} \tau)$	$\mathbf{C}$
5dsmutau	$\frac{4\ddot{G_F}}{\sqrt{2}}(\bar{d}P_Rs)(\bar{\mu} au)$	$\mathbf{C}$
5pdsmutau	$\frac{4\tilde{G}_F}{\sqrt{2}}(ar{d}P_Ls)(ar{\mu} au)$	$\mathbf{C}$
7dsmutau	$\frac{4\tilde{G}_F}{\sqrt{2}}(\bar{d}P_R\sigma^{\mu\nu}s)(\bar{\mu}\sigma_{\mu\nu}\tau)$	$\mathbf{C}$
7pdsmutau	$\frac{4G_F}{\sqrt{2}}(\bar{d}P_L\sigma^{\mu\nu}s)(\bar{\mu}\sigma_{\mu\nu}\tau)$	$\mathbf{C}$
9dsmutau	$\frac{4\bar{G_F}}{\sqrt{2}}(\bar{d}P_R\gamma_{\mu\nu\rho\sigma}s)(\bar{\mu}\gamma^{\mu\nu\rho\sigma}\tau)$	$\mathbf{C}$
9pdsmutau	$\frac{{}^{4}\bar{G}_{F}}{\sqrt{2}}(\bar{d}P_{R}\gamma_{\mu\nu\rho\sigma}s)(\bar{\mu}\gamma^{\mu\nu\rho\sigma}\tau)  \frac{{}^{4}\bar{G}_{F}}{\sqrt{2}}(\bar{d}P_{L}\gamma_{\mu\nu\rho\sigma}s)(\bar{\mu}\gamma^{\mu\nu\rho\sigma}\tau)$	С

#### sdtaue

WC name	Operator	Type
1dstaue	$\frac{4G_F}{\sqrt{2}}(\bar{d}P_R\gamma_\mu s)(\bar{\tau}\gamma^\mu e)$	C
1pdstaue	$\frac{4\check{G}_F}{\sqrt{2}}(\bar{d}P_L\gamma_\mu s)(\bar{\tau}\gamma^\mu e)$	$\mathbf{C}$
3dstaue	$\frac{4G_F}{\sqrt{2}}(\bar{d}P_R\gamma_{\mu\nu\rho}s)(\bar{\tau}\gamma^{\mu\nu\rho}e)$	$\mathbf{C}$
3pdstaue	$\frac{4G_F}{\sqrt{2}}(\bar{d}P_L\gamma_{\mu\nu\rho}s)(\bar{\tau}\gamma^{\mu\nu\rho}e)$	$\mathbf{C}$
5dstaue	$\frac{4\tilde{G}_F}{\sqrt{2}}(\bar{d}P_Rs)(\bar{\tau}e)$	$\mathbf{C}$
5pdstaue	$\frac{4\check{G}_F}{\sqrt{2}}(\bar{d}P_Ls)(\bar{\tau}e)$	$\mathbf{C}$
7dstaue	$\frac{4\check{G}_F}{\sqrt{2}}(\bar{d}P_R\sigma^{\mu\nu}s)(\bar{\tau}\sigma_{\mu\nu}e)$	$\mathbf{C}$
7pdstaue	$\frac{4G_F}{\sqrt{2}}(\bar{d}P_L\sigma^{\mu\nu}s)(\bar{\tau}\sigma_{\mu\nu}e)$	$\mathbf{C}$
9dstaue	$\frac{4\check{G}_F}{\sqrt{2}}(\bar{d}P_R\gamma_{\mu\nu\rho\sigma}s)(\bar{\tau}\gamma^{\mu\nu\rho\sigma}e)$	$\mathbf{C}$
9pdstaue	$\frac{\frac{4G_F}{\sqrt{2}}(\bar{d}P_R\gamma_{\mu\nu\rho\sigma}s)(\bar{\tau}\gamma^{\mu\nu\rho\sigma}e)}{\frac{4G_F}{\sqrt{2}}(\bar{d}P_L\gamma_{\mu\nu\rho\sigma}s)(\bar{\tau}\gamma^{\mu\nu\rho\sigma}e)}$	С

#### ${\tt sdtaumu}$

WC name	Operator	Type
1dstaumu	$\frac{4G_F}{\sqrt{2}}(\bar{d}P_R\gamma_\mu s)(\bar{\tau}\gamma^\mu\mu)$	C
1pdstaumu	$\frac{\frac{4G_F}{\sqrt{2}}(\bar{d}P_R\gamma_\mu s)(\bar{\tau}\gamma^\mu\mu)}{\frac{4G_F}{\sqrt{2}}(\bar{d}P_L\gamma_\mu s)(\bar{\tau}\gamma^\mu\mu)}$	$\mathbf{C}$
3dstaumu	$\frac{4G_F}{\sqrt{2}}(\bar{d}P_R\gamma_{\mu\nu\rho}s)(\bar{\tau}\gamma^{\mu\nu\rho}\mu)$	$\mathbf{C}$
3pdstaumu	$rac{4G_F}{\sqrt{2}}(ar{d}P_L\gamma_{\mu u ho}s)(ar{ au}\gamma^{\mu u ho}\mu)$	$\mathbf{C}$
5dstaumu	$\frac{4G_F}{\sqrt{2}}(\bar{d}P_Rs)(\bar{\tau}\mu)$	$\mathbf{C}$
5pdstaumu	$\frac{4G_F}{\sqrt{2}}(\bar{d}P_Ls)(\bar{\tau}\mu)$	$\mathbf{C}$
7dstaumu	$\frac{4G_F}{\sqrt{2}}(\bar{d}P_R\sigma^{\mu\nu}s)(\bar{\tau}\sigma_{\mu\nu}\mu)$	$\mathbf{C}$
7pdstaumu	$\frac{4\tilde{G}_F}{\sqrt{2}}(\bar{d}P_L\sigma^{\mu\nu}s)(\bar{\tau}\sigma_{\mu\nu}\mu)$	$\mathbf{C}$
9dstaumu	$\frac{4\tilde{G}_F}{\sqrt{2}}(\bar{d}P_R\gamma_{\mu\nu\rho\sigma}s)(\bar{\tau}\gamma^{\mu\nu\rho\sigma}\mu)$	$\mathbf{C}$
9pdstaumu	$\frac{\frac{4\tilde{G}_{F}}{\sqrt{2}}(\bar{d}P_{R}\gamma_{\mu\nu\rho\sigma}s)(\bar{\tau}\gamma^{\mu\nu\rho\sigma}\mu)}{\frac{4G_{F}}{\sqrt{2}}(\bar{d}P_{L}\gamma_{\mu\nu\rho\sigma}s)(\bar{\tau}\gamma^{\mu\nu\rho\sigma}\mu)}$	С

## sdnunu

WC name	Operator	Type
nu1dsee	$\frac{4G_F}{\sqrt{2}}(\bar{d}P_R\gamma_\mu s)(\bar{\nu}_e\gamma^\mu\nu_e)$	C
nu1pdsee	$\frac{4\tilde{G}_F}{\sqrt{2}}(\bar{d}P_L\gamma_\mu s)(\bar{\nu}_e\gamma^\mu\nu_e)$	$^{\mathrm{C}}$
nu1dsmumu	$\frac{4\tilde{G}_F}{\sqrt{2}}(ar{d}P_R\gamma_\mu s)(ar{ u}_\mu\gamma^\mu u_\mu)$	$\mathbf{C}$
nu1pdsmumu	$\frac{4\check{G}_F}{\sqrt{2}}(\bar{d}P_L\gamma_\mu s)(\bar{ u}_\mu\gamma^\mu u_\mu)$	$\mathbf{C}$
nu1dstautau	$\frac{4\check{G}_F}{\sqrt{2}}(\bar{d}P_R\gamma_\mu s)(\bar{\nu}_\tau\gamma^\mu u_ au)$	$^{\mathrm{C}}$
nu1pdstautau	$\frac{4\tilde{G}_F}{\sqrt{2}}(\bar{d}P_L\gamma_\mu s)(\bar{\nu}_\tau\gamma^\mu u_ au)$	$^{\mathrm{C}}$
nu1dsemu	$\frac{4\tilde{G}_F}{\sqrt{2}}(\bar{d}P_R\gamma_\mu s)(\bar{\nu}_e\gamma^\mu u_\mu)$	$^{\mathrm{C}}$
nu1pdsemu	$\frac{4\tilde{G}_F}{\sqrt{2}}(ar{d}P_L\gamma_\mu s)(ar{ u}_e\gamma^\mu u_\mu)$	$^{\mathrm{C}}$
nu1dsmue	$\frac{4\tilde{G}_F}{\sqrt{2}}(ar{d}P_R\gamma_\mu s)(ar{ u}_\mu\gamma^\mu u_e)$	$\mathbf{C}$
nu1pdsmue	$\frac{4\tilde{G}_F}{\sqrt{2}}(ar{d}P_L\gamma_\mu s)(ar{ u}_\mu\gamma^\mu u_e)$	$\mathbf{C}$
nu1dsetau	$rac{4ar{Q}_F^F}{\sqrt{2}}(ar{d}P_R\gamma_\mu s)(ar{ u}_e\gamma^\mu u_ au)$	$\mathbf{C}$
nu1pdsetau	$\frac{4\tilde{G}_F}{\sqrt{2}}(\bar{d}P_L\gamma_\mu s)(\bar{\nu}_e\gamma^\mu u_ au)$	$\mathbf{C}$
nu1dstaue	$\frac{4\tilde{G}_F}{\sqrt{2}}(\bar{d}P_R\gamma_\mu s)(\bar{\nu}_\tau\gamma^\mu\nu_e)$	$\mathbf{C}$
nu1pdstaue	$\frac{4\tilde{G}_F}{\sqrt{2}}(ar{d}P_L\gamma_\mu s)(ar{ u}_ au\gamma^\mu u_e)$	$\mathbf{C}$
nu1dstaumu	$rac{4reve{G}_F}{\sqrt{2}}(ar{d}P_R\gamma_\mu s)(ar{ u}_ au\gamma^\mu u_\mu)$	$\mathbf{C}$
nu1pdstaumu	$rac{4ar{Q}_{F}^{F}}{\sqrt{2}}(ar{d}P_{L}\gamma_{\mu}s)(ar{ u}_{ au}\gamma^{\mu} u_{\mu})$	$\mathbf{C}$
nu1dsmutau	$rac{4ar{Q}_{F}^{F}}{\sqrt{2}}(ar{d}P_{R}\gamma_{\mu}s)(ar{ u}_{\mu}\gamma^{\mu} u_{ au})$	$\mathbf{C}$
nu1pdsmutau	$rac{4 \overleftarrow{G_F}}{\sqrt{2}} (ar{d} P_L \gamma_\mu s) (ar{ u}_\mu \gamma^\mu  u_ au)$	$^{\mathrm{C}}$