Summary - Int 6, Group B, 𝚫𝚫G Version

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# *Intermidiate 6*

### Model 3P

| formula | R.sq | Q.sq | MAE |
| --- | --- | --- | --- |
| ddg ~ NPA\_10 + NPA\_30 + diff\_NBO\_32\_30 | 0.604 | 0.483 | 0.385 |
| ddg ~ NPA\_30 + NPA\_31 + diff\_NBO\_4\_10 | 0.584 | 0.466 | 0.379 |

***Multicollinearity check***

|  | x |
| --- | --- |
| NPA\_10 | 1.162 |
| NPA\_30 | 1.236 |
| diff\_NBO\_32\_30 | 1.069 |

***Scaled Coefficients:***

|  | Estimate | Std. Error | t value | Pr(>|t|) |
| --- | --- | --- | --- | --- |
| (Intercept) | 1.018 | 0.078 | 13.038 | 0.0000000 |
| NPA\_10 | -0.485 | 0.085 | -5.680 | 0.0000027 |
| NPA\_30 | 0.468 | 0.088 | 5.323 | 0.0000078 |
| diff\_NBO\_32\_30 | 0.258 | 0.082 | 3.157 | 0.0034611 |

### Model 4P

| formula | R.sq | Q.sq | MAE |
| --- | --- | --- | --- |
| ddg ~ NPA\_10 + NPA\_30 + diff\_NBO\_4\_10 + diff\_NBO\_32\_30 | 0.727 | 0.614 | 0.332 |
| ddg ~ NPA\_4 + NPA\_10 + NPA\_30 + diff\_NBO\_32\_30 | 0.727 | 0.614 | 0.332 |

***Multicollinearity check***

|  | x |
| --- | --- |
| NPA\_10 | 1.256 |
| NPA\_30 | 1.255 |
| diff\_NBO\_4\_10 | 1.141 |
| diff\_NBO\_32\_30 | 1.073 |

***Scaled Coefficients:***

|  | Estimate | Std. Error | t value | Pr(>|t|) |
| --- | --- | --- | --- | --- |
| (Intercept) | 1.018 | 0.066 | 15.453 | 0.0000000 |
| NPA\_10 | -0.408 | 0.075 | -5.457 | 0.0000058 |
| NPA\_30 | 0.503 | 0.075 | 6.721 | 0.0000002 |
| diff\_NBO\_4\_10 | 0.267 | 0.071 | 3.735 | 0.0007583 |
| diff\_NBO\_32\_30 | 0.275 | 0.069 | 3.974 | 0.0003927 |