

| | 120 | * | 140 | * | 160 | * | 180 | * | 200 | * | 220 | | |
|-------|------------------------|-------------|------------|------------|--------------|------|--|---------|-----------|----------|-----|--|--|
| Sal-I | : DLDNYDADFIGQGKKIITKG | AADKEEEEED | DEDEEAVEGD | - | EAEAGERD | - | EAEAEAVRGDTSHQSGSGDLTPSPPGSSERAPAVAPGETPRVTATSQGPSQT | : | 209 | | | | |
| AND11 | : DLDNYDADFIGQGKKIITKG | AADKEEEEED | DEDEEAVEGD | - | EAEAGERD | - | EAEAEAVRGDTSHQSGSGDLTPSPPGSSERAPAVAPGETPRDTATSQGPSQT | : | 203 | | | | |
| CAR12 | : DLDNYDADFIGQGKKIITKG | AADKEEEEED | DEDEEAVEGD | - | EAEAGERDEA | - | EAEAEAVRGDTSHQSGSGDLTPSPPGSSERAPAVAPGETPRVTATSQGPSQT | : | 205 | | | | |
| AND6 | : DLDNYDADFIGQGKKIITKG | AADKEEEEED | DEDEEAVEGD | - | EAEAGERDEA | - | EAEAEAVRGDTSHQSGSGDLTPSPPGSSERAPAVAPGETPRVTATSQGPSQT | : | 205 | | | | |
| AMA5 | : DLDNYDADFIGQGKKIITKG | AADKEEEEED | DEDEEAVEGD | - | EAEAGERDEAEA | - | EAEAEAVRGDTSHQSGSGDLTPSPPGSSERAPAVAPGETPRVTATSQGPSQT | : | 207 | | | | |
| AND1 | : DLDNYDADFIGQGKKIITKG | AADKEEEEED | DEDEEAVEGD | - | EAEAGERDEA | - | EAEAEAVRGDTSHQSGSGDLTPSPPGSSERAPAVAPGETPRVTATSQGPSQT | : | 205 | | | | |
| AND5 | : DLDNYDADFIGQGKKIITKG | AADKEEEEED | DEDEEAVEGD | - | EAEAGERD | - | EAEAEAVRGDTSHQSGSGDLTPSPPGSSERAPAVAPGETPRVTATSQGPSQT | : | 203 | | | | |
| CAR11 | : DLDNYDADFIGQGKKIITKG | AADKEEEEED | DEDEEAVEGD | - | EAEAGERD | - | EAEAEAVRGDTSHQSGSGDLTPSPPGSSERAPAVAPGETPRVTATSQGPSQT | : | 203 | | | | |
| AND12 | : DLDNYDADFIGQGKKIITKG | AADKEEEEED | DEDEEAVEGD | - | EAEAGERD | - | EAEAEAVRGDTSHQSGSGDLTPSPPGSSERAPAVAPGETPRVTATSQGPSQT | : | 203 | | | | |
| ORI3 | : DLDNYDADFIGQGKKIITKG | AADKEEEEED | DEDEEAVEGD | - | EAEAGERD | - | EAEAEAVRGDTSHQSGSGDLTPSPPGSSERAPAVAPGETPRDTATSQGPSQT | : | 203 | | | | |
| AND9 | : DLDNYDADFIGQGKKIITKG | AADKEEEEED | DEDEEAVEGD | - | EAEAGERD | - | EAEAEAVRGDTSHQSGSGDLTPSPPGSSERAPAVAPGETPRDTATSQGPSQT | : | 203 | | | | |
| PAC6 | : DLDNYDADFIGQGKKIITKG | AADKEEEEED | DEDEEAVEGD | - | EAEAGERD | - | EAEAEAVRGDTSHQSGSGDLTPSPPGSSERAPAVAPGETPRDTATSQGPSQT | : | 203 | | | | |
| VCG-I | : DLDNYDADFIGQGKKIITKG | AADKEEEEED | DEDEEAVEGD | - | EAEAGERD | - | EAEAEAVRGDTSHQSGSGDLTPSPPGSSERAPAVAPGETPRDTATSQGPSQT | : | 203 | | | | |
| PAC1 | : DLDNYDADFIGQGKKIITKG | AADKEEEEED | DEDEEAVEGD | - | EAEAGERD | - | EAEAEAVRGDTSHQSGSGDLTPSPPGSSERAPAVAPGETPRDTATSQGPSQT | : | 203 | | | | |
| ORI2 | : DLDNYDADFIGQGKKIITKG | AADKEEEEED | DEDEEAVEGD | - | EAEAGERDEA | - | EAEAEAVRGDTSHQSGSGDLTPSPPGSSERAPAVAPGETPRVTATSQGPSQT | : | 205 | | | | |
| CAR2 | : DLDNYDADFIGQGKKIITKG | AADKEEEEED | DEDEEAVEGD | - | EAEAGERD | - | EAEAEAVRGDTSHQSGSGDLTPSPPGSSERAPAVAPGETPRVTATSQGPSQT | : | 203 | | | | |
| CAR4 | : DLDNYDADFIGQGKKIITKG | AADKEEEEED | DEDEEAVEGD | - | EAEAGERD | - | EAEAEAVRGDTSHQSGSGDLTPSPPGSSERAPAVAPGETPRVTATSQGPSQT | : | 203 | | | | |
| ORI1 | : DLDNYDADFIGQGKKIITKG | AADKEEEEED | DEDEEAVEGD | - | EAEAGERD | - | EAEAEAVRGDTSHQSGSGDLTPSPPGSSERAPAVAPGETPRVTATSQGPSQT | : | 203 | | | | |
| AND7 | : DLDNYDADFIGQGKKIITKG | AADKEEEEED | DEDEEAVEGD | - | EAEAGERD | - | EAEAEAVRGDTSHQSGSGDLTPSPPGSSERAPAVAPGETPRVTATSQGPSQT | : | 203 | | | | |
| AND2 | : DLDNYDADFIGQGKKIITKG | AADKEEEEED | DEDEEAVEGD | - | EAEAGERD | - | EAEAEAVRGDTSHQSGSGDLTPSPPGSSERAPAVAPGETPRVTATSQGPSQT | : | 203 | | | | |
| CAR5 | : DLDNYDADFIGQGKKIITKG | AADKEEEEED | DEDEEAVEGD | - | EAEAGERD | - | EAEAEAVRGDTSHQSGSGDLTPSPPGSSERAPAVAPGETPRVTATSQGPSQT | : | 203 | | | | |
| CAR6 | : DLDNYDADFIGQGKKIITKG | AADKEEEEED | DEDEEAVEGD | - | EAEAGERD | - | EAEAEAVRGDTSHQSGSGDLTPSPPGSSERAPAVAPGETPRVTATSQGPSQT | : | 203 | | | | |
| CAR3 | : DLDNYDADFIGQGKKIITKG | AADKEEEEED | DEDEEAVEGD | - | EAEAGERD | - | EAEAEAVRGDTSHQSGSGDLTPSPPGSSERAPAVAPGETPRDTATSQGPSQT | : | 203 | | | | |
| AND13 | : DLDNYDADFIGQGKKIITKG | AADKEEEEED | DEDEEAVEGD | - | EAEAGERD | - | EAEAEAVRGDTSHQSGSGDLTPSPPGSSERAPAVAPGETPRVTATSQGPSQT | : | 203 | | | | |
| AND10 | : DLDNYDADFIGQGKKIITKG | AADKEEEEED | DEDEEAVEGD | - | EAEAGERD | - | EAEAEAVRGDTSHQSGSGDLTPSPPGSSERAPAVAPGETPRVTATSQGPSQT | : | 203 | | | | |
| CAR13 | : DLDNYDADFIGQGKKIITKG | AADKEEEEED | DEDEEAVEGD | - | EAEAGERD | - | EAEAEAVRGDTSHQSGSGDLTPSPPGSSERAPAVAPGETPRVTATSQGPSQT | : | 203 | | | | |
| PAC3 | : DLDNYDADFIGQGKKIITKG | AADKEEEEED | DEDEEAVEGD | - | EAEAGERD | - | EAEAEAVRGDTSHQSGSGDLTPSPPGSSERAPAVAPGETPRVTATSQGPSQT | : | 203 | | | | |
| CAR10 | : DLDNYDADFIGQGKKIITKG | AADKEEEEED | DEDEEAVEGD | EEAEGD | EAEAGERD | - | EAEAEAVRGDTSHQSGSGDLTPSPPGSSERAPAVAPGETPRVTATSQGPSQT | : | 210 | | | | |
| CAR8 | : DLDNYDADFIGQGKKIITKG | AVGDSNEEDGG | DEDEEAVEGD | -EA- | EAEEG | - | EEEATNEVASHQSGSGDLTPSPPasGelApAtTargetAtDPTSQEpsqt | : | 202 | | | | |
| PAC4 | : DLDNYDADFIGQGKKIITKG | GVVDSNEEDGG | DEDEEAVEGD | -EA- | EAEEG | - | EEEATNEVASHQSDSeAsGesDpAsGelApAtTargenAtDPTSQEpsqt | : | 202 | | | | |
| PAC5 | : DLDNYDADFIGQGKKIITKG | GVVDSNEEDGG | DEDEEAVEGD | -EA- | EAEEG | - | EEEATNEVASHQSDSeAsGesDpAsGelApAtTargenAtDPTSQEpsqt | : | 202 | | | | |
| AMA3 | : DLDNYDADFIGQGKKIITKG | GVVDSNEEDGG | DEDEEAVEGD | -EA- | EAEEG | - | EEEATNEVASHQSDSeAsGesDpAsGelApAtTargenAtDPTSQEpsqt | : | 202 | | | | |
| AND3 | : DLDNYDADFIGQGKKIITKG | GVVDSNEEDGG | DEDEEAVEGD | -EA- | EAEEG | - | EEEATNEVASHQSDSeAsGesDpAsGelApAtTargenAtDPTSQEpsqt | : | 202 | | | | |
| ORI4 | : DLDNYDADFIGQGKKIITKG | GAVDSNEEDGG | DEDEEAVEGD | -EA- | EAEEG | - | EEEATNEVASHQSDSeAsGesDpAsGeVaPAtTargenAtDPTSQEpsqt | : | 202 | | | | |
| CAR1 | : DLDNYDADFIGQGKKIITKG | GAVDSNEEDGG | DEDEEAVEGD | -EA- | EAEEG | - | EEEATNEVASHQSDSeAsGesDpAsGeVaPAtTargenAtDPTSQEpsqt | : | 202 | | | | |
| AND8 | : DLDNYDADFIGQGKKIITKG | GAVDSNEEDGG | DEDEEAVEGD | -EA- | EAEEG | - | EEEATNEVASHQSDSeAsGesDpAsGeVaPAtTargenAtDPTSQEpsqt | : | 202 | | | | |
| ORI5 | : DLDNYDADFIGQGKKIITKG | GAVDSNEEDGG | DEDEEAVEGD | -EA- | EAEEG | - | EEEATNEVASHQSDSeAsGesDpAsGeVaPAtTargenAtDPTSQEpsqt | : | 202 | | | | |
| PAC7 | : DLDNYDADFIGQGKKIITKG | GAVDSNEEDGG | DEDEEAVEGD | -EA- | EAEEG | - | EEEATNEVASHQSDSAVSPRSVSESREPAtAtVPAETARDNPPSQETAPT | : | 202 | | | | |
| PAC2 | : DLDNYDADFIGQGKKIITKG | GAVDSNEEDGG | DEDEEAVEGD | -EA- | EAEEG | - | EEEATNEVASHQSDSAVSPRSVSESREPAtAtPGETARDNPPSQETAPT | : | 202 | | | | |
| PAC8 | : DLDNYDADFIGQGKKIITKG | AASSEEDED | --EEDDED | - | EAEQET | - | DKGSTS DQPDAVSPQRAPESPELTTATARGATVRD SPTSPGLSPT | : | 193 | | | | |
| CAR7 | : DLDNYDADFIGQGKKIITKG | AASSEEDED | --EEDDED | - | EAEQET | - | DKGSTS DQPDAVSPQRAPESPELTTATARGATVRD SPTSPGLSPT | : | 193 | | | | |
| AMA4 | : DLDNYDADFIGQGKKIITKG | AASSEEDED | --EEDDED | - | EAEQET | - | DKGSTS DQPDAVSPQRAPESPELTTATARGATVRD SPTSPGLSPT | : | 193 | | | | |
| AND4 | : DLDNYDADFIGQGKKIITKG | AASSEEDED | --EEDDED | - | EAEQET | - | DKGSTS DQPDAVSPQRAPESPELTTATARGATVRD SPTSPGLSPT | : | 193 | | | | |
| | dLDNYDADFIGQGKKIITKG | a d | Ee | dedEEavEgd | eag | e ea | ShQs S | s p S E | apA a get | tSq psqt | | | |

| | 340 | * | 360 | * | 380 | * |
|-------|---|---|-----|---|-----|-------|
| Sal-I | : NPSPADAVSFFKKMLNDPNVQKEFDNFVHGLYGFAKRHNYLRDERMNLTDAAKSILFVNTLSLLDTL | | | | | : 385 |
| AND11 | : NPSPADAVSFFKKMLNDPNVQKEFDNFVHGLYGFAKRHNYLRDERMNLTDAAKSILFVNTLSLLDTL | | | | | : 379 |
| CAR12 | : NPSPADAVSFFKKMLNDPNVQKEFDNFVHGLYGFAKRHNYLRDERMNLTDAAKSILFVNTLSLLDTL | | | | | : 381 |
| AND6 | : NPSPADAVSFFKKMLNDPNVQKEFDNFVHGLYGFAKRHNYLRDERMNLTDAAKSILFVNTLSLLDTL | | | | | : 381 |
| AMA5 | : NPSPADAVSFFKKMLNDPNVQKEFDNFVHGLYGFAKRHNYLRDERMNLTDAAKSILFVNTLSLLDTL | | | | | : 383 |
| AND1 | : NPSPADAVSFFKKMLNDPNVQKEFDNFVHGLYGFAKRHNYLRDERMNLTDAAKSILFVNTLSLLDTL | | | | | : 381 |
| AND5 | : NPSPADAVSFFKKMLNDPNVQKEFDNFVHGLYGFAKRHNYLRDERMNLTDAAKSILFVNTLSLLDTL | | | | | : 379 |
| CAR11 | : NPSPADAVSFFKKMLNDPNVQKEFDNFVHGLYGFAKRHNYLRDERMNLTDAAKSILFVNTLSLLDTL | | | | | : 379 |
| AND12 | : NPSPADAVSFFKKMLNDPNVQKEFDNFVHGLYGFAKRHNYLRDERMNLTDAAKSILFVNTLSLLDTL | | | | | : 379 |
| ORI3 | : NPSPADAVSFFKKMLNDPNVQKEFDNFVHGLYGFAKRHNYLRGERMNLTDAAKSILFVNTLSLLDTL | | | | | : 379 |
| AND9 | : NPSPADAVSFFKKMLNDPNVQKEFDNFVHGLYGFAKRHNYLRGERMNLTDAAKSILFVNTLSLLDTL | | | | | : 379 |
| PAC6 | : NPSPADAVSFFKKMLNDPNVQKEFDNFVHGLYGFAKRHNYLRDERMNLTDAAKSILFVNTLSLLDTL | | | | | : 379 |
| VCG-I | : NPSPADAVSFFKKMLNDPNVQKEFDNFVHGLYGFAKRHNYLRDERMNLTDAAKSILFVNTLSLLDTL | | | | | : 379 |
| PAC1 | : NPSPADAVSFFKKMLNDPNVQKEFDNFVHGLYGFAKRHNYLRDERMNLTDAAKSILFVNTLSLLDTL | | | | | : 379 |
| ORI2 | : NPSPADAVSFFKKMLNDPNVQKEFDNFVHGLYGFAKRHNYLRDERMNLTDAAKSILFVNTLSLLDTL | | | | | : 381 |
| CAR2 | : NPSPADAVSFFKKMLNDPNVQKEFDNFVHGLYGFAKRHNYLRDERMNLTDAAKSILFVNTLSLLDTL | | | | | : 379 |
| CAR4 | : NPSPADAVSFFKKMLNDPNVQKEFDNFVHGLYGFAKRHNYLRDERMNLTDAAKSILFVNTLSLLDTL | | | | | : 379 |
| ORI1 | : NPSPADAVSFFKKMLNDPNVQKEFDNFVHGLYGFAKRHNYLRDERMNLTDAAKSILFVNTLSLLDTL | | | | | : 379 |
| AND7 | : NPSPADAVSFFKKMLNDPNVQKEFDNFVHGLYGFAKRHNYLRDERMNLTDAAKSILFVNTLSLLDTL | | | | | : 379 |
| AND2 | : NPSPADAVSFFKKMLNDPNVQKEFDNFVHGLYGFAKRHNYLRDERMNLTDAAKSILFVNTLSLLDTL | | | | | : 379 |
| CAR5 | : NPSPADAVSFFKKMLNDPNVQKEFDNFVHGLYGFAKRHNYLRDERMNLTDAAKSILFVNTLSLLDTL | | | | | : 379 |
| CAR6 | : NPSPADAVSFFKKMLNDPNVQKEFDNFVHGLYGFAKRHNYLRDERMNLTDAAKSILFVNTLSLLDTL | | | | | : 379 |
| CAR3 | : NPSPADAVSFFKKMLNDPNVQKEFDNFVHGLYGFAKRHNYLRGERMNLTDAAKSILFVNTLSLLDTL | | | | | : 379 |
| AND13 | : NPSPADAVSFFKKMLNDPNVQKEFDNFVHGLYGFAKRHNYLRDERMNLTDAAKSILFVNTLSLLDTL | | | | | : 379 |
| AND10 | : NPSPADAVSFFKKMLNDPNVQKEFDNFVHGLYGFAKRHNYLRDERMNLTDAAKSILFVNTLSLLDTL | | | | | : 379 |
| CAR13 | : NPSPADAVSFFKKMLNDPNVQKEFDNFVHGLYGFAKRHNYLRDERMNLTDAAKSILFVNTLSLLDTL | | | | | : 379 |
| PAC3 | : NPSPADAVSFFKKMLNDPNVQKEFDNFVHGLYGFAKRHNYLRDERMNLTDAAKSILFVNTLSLLDTL | | | | | : 379 |
| CAR10 | : NPSPADAVSFFKKMLNDPNVQKEFDNFVHGLYGFAKRHNYLRDERMNLTDAAKSILFVNTLSLLDTL | | | | | : 386 |
| CAR8 | : NPSPADAVSFFKKMLNDPNVQKEFDNFVHGLYGFAKRHNYLRGERMNLTDAAKSILFVNTLSLLDTL | | | | | : 378 |
| PAC4 | : NPSPADAVSFFKKMLNDPNVQKEFDNFVHGLYGFAKRHNYLRDERMNLTDAAKSILFVNTLSLLDTL | | | | | : 378 |
| PAC5 | : NPSPADAVSFFKKMLNDPNVQKEFDNFVHGLYGFAKRHNYLRDERMNLTDAAKSILFVNTLSLLDTL | | | | | : 378 |
| AMA3 | : NPSPADAVSFFKKMLNDPNVQKEFDNFVHGLYGFAKRHNYLRDERMNLTDAAKSILFVNTLSLLDTL | | | | | : 378 |
| AND3 | : NPSPADAVSFFKKMLNDPNVQKEFDNFVHGLYGFAKRHNYLRDERMNLTDAAKSILFVNTLSLLDTL | | | | | : 378 |
| ORI4 | : NPSPADAVSFFKKMLNDPNVQKEFDNFVHGLYGFAKRHNYLRDERMNLTDAAKSILFVNTLSLLDTL | | | | | : 378 |
| CAR1 | : NPSPADAVSFFKKMLNDPNVQKEFDNFVHGLYGFAKRHNYLRDERMNLTDAAKSILFVNTLSLLDTL | | | | | : 378 |
| AND8 | : NPSPADAVSFFKKMLNDPNVQKEFDNFVHGLYGFAKRHNYLRDERMNLTDAAKSILFVNTLSLLDTL | | | | | : 378 |
| ORI5 | : NPSPADAVSFFKKMLNDPNVQKEFDNFVHGLYGFAKRHNYLRDERMNLTDAAKSILFVNTLSLLDTL | | | | | : 378 |
| PAC7 | : NPSPADAVSFFKKMLNDPNVQKEFDNFVHGLYGFAKRHNYLRDERMNLTDAAKSILFVNTLSLLDTL | | | | | : 378 |
| PAC2 | : NPSPADAVSFFKKMLNDPNVQKEFDNFVHGLYGFAKRHNYLRDERMNLTDAAKSILFVNTLSLLDTL | | | | | : 378 |
| PAC8 | : NPSPADAVSFFKKMLNDPNVQKEFDNFVHGLYGFAKRHNYLRDERMNLTDAAKSILFVNTLSLLDTL | | | | | : 369 |
| CAR7 | : NPSPADAVSFFKKMLNDPNVQKEFDNFVHGLYGFAKRHNYLRGERMNLTDAAKSILFVNTLSLLDTL | | | | | : 369 |
| AMA4 | : NPSPADAVSFFKKMLNDPNVQKEFDNFVHGLYGFAKRHNYLRDERMNLTDAAKSILFVNTLSLLDTL | | | | | : 369 |
| AND4 | : NPSPADAVSFFKKMLNDPNVQKEFDNFVHGLYGFAKRHNYLRDERMNLTDAAKSILFVNTLSLLDTL | | | | | : 369 |
| | NPSPADAVSFFKKMLNDPNVQKEFDNFVHGLYGFAKRHNYLRderMNLTDAAKSILFVNTLSLLDTL | | | | | |